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Metropolitan Statistical Area
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PROJECTIONS AND PLANNING INFORMATION


SANTA CRUZ-WATSONVILLE METROPOLITAN STATISTICAL AREA (SANTA CRUZ COUNTY)

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LABOR MARKET INFORMATION DIVISION

MISSION

WE PROMOTE CALIFORNIA'S ECONOMIC HEALTH BY PROVIDING INFORMATION TO HELP PEOPLE UNDERSTAND CALIFORNIA'S ECONOMY AND MAKE INFORMED LABOR MARKET CHOICES.

VISION

WE ARE THE LABOR MARKET INFORMATION SOURCE FOR CALIFORNIA AND A NATIONAL LEADER IN LABOR MARKET INFORMATION. WE ARE AN INNOVATIVE, CREATIVE AND EXPERT CONSULTING ORGANIZATION; AN ECONOMIC DEVELOPMENT AND RESEARCH PARTNER; AND A PRESTIGIOUS AND HIGHLY CREDIBLE ORGANIZATION.



LABOR MARKET INFORMATION DIVISION

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WE PROVIDE LABOR MARKET INFORMATION TO HELP PEOPLE UNDERSTAND LABOR MARKET TRENDS AND MAKE EDUCATIONAL AND TRAINING CHOICES.

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Projections & Planning Information

Module A:

Introduction

Table of Contents

Module A: INTRODUCTION

Note to Readers	A-v
Area Profile	A-1
Population of the County and Selected Cities	A-2
Area Map	A-3
Population Estimates for California and Counties	A-4
The Occupational Information Network (O*NET)	A-5
Standard Occupational Classification (SOC)	A-6
EDD and Related Services	A-7

Table of Contents

Module A: INTRODUCTION

How to Read This Book	A-1
Key Points	A-2
Purpose of the Course and Student Objectives	A-3
Course Map	A-4
Registration Information for Students and Faculty	A-5
The Occasional Instructional Materials (OIM)	A-6
Student Support and Orientation (SSO)	A-7
500 and 600 Series	A-8

Note to Readers

The Employment Development Department's Labor Market Information Division (LMID) regularly collects, analyzes, and publishes information about California's labor market, which consists of approximately 15 million workers and 1 million employers. In addition to employment and unemployment data, LMID provides economic planning information, industry and occupational information, social and demographic information, and a variety of other statistics.

LMID produces the Projection and Planning Information publication (PPI) for 57 counties and the State. Each module within the PPI is designed to present data in a clear and usable form. The variety and number of reports within each module are intended to answer the most frequently asked questions. These modules are updated as new information becomes available and are delivered to customers for inclusion in a three-ring binder.

Customers may choose some or all of the following modules:

Module A: Introduction *Information about the featured county and population tables providing data for the past and present. Additional resources for exploring various occupations.*

- Area Profile
- Area Map
- County/City Population
- Population Estimates for California and Counties
- O*NET The Occupational Network
- Standard Occupational Classification (SOC)
- EDD and Related Websites

Module B: Labor Force *Current and historical labor force, employment, unemployment and unemployment rates.*

- State Map of Current Annual Average Rates by County
- Annual Average Unemployment Rates
- Monthly and Annual Average Data

Module C: Wage and Salary Employment *Current and historical wage and salary employment data.*

- Annual Average Data
- Monthly Data

Module D: Projections *Information for estimating job opportunities, developing training programs, and gaining an insight into future employment trends.*

- Description of Industry and Occupational Tables
- Training Level Definitions
- Industry Trends and Outlook
- Employment by Major Industry
- Industry Employment Projections
- Employment by Major Occupational Group
- Occupations with the Greatest Absolute Job Growth (Growth plus Separations)
- Occupations with the Fastest Job Growth
- Occupational Employment Projections
- Occupations with Most Openings
- Occupations with Projected Declines
- Alphabetical Index of Occupations
- Description of Standard Industrial Classification (SIC) and North American Industry Classification (NAICS)
- Methods and Economic Assumptions

Module E: Occupational Wages *Occupational Employment Statistics (OES) Wage Survey results and explanation of methodology.*

- Occupational Wages for Selected Counties

Module F: Social and Economic Data *Tables from the U.S. Department of Commerce, the Census Bureau, and various State agencies.*

- Public Assistance Recipients by Program
- Public Assistance Recipients by Program (CalWORKs), Characteristics of Recipients
- Occupations with the Greatest Absolute Job Growth
- Lower Living Standard Income Levels and Poverty Guidelines
- Planning Information for Local Workforce Investment Areas
- Profile of General Demographic Characteristics
- Explanation of Terms and Concepts
- Nondiscrimination Information

Santa Cruz County

Santa Cruz County is located along the north side of Monterey Bay on the central coast of California. Surrounding counties include San Mateo to the north, Santa Clara to the east, and Monterey to the south. Covering 440 square miles, Santa Cruz is the second smallest county in the state. The county encompasses a wide variety of landscapes, including the Pajaro River and the Santa Cruz Mountains. Hugging the coastline, scenic State Highway 1 traverses Santa Cruz County; State Highways 9, 17, and 152 also figure importantly in the county's transportation system. With its spectacular coastline, and accessible beaches and mountains, Santa Cruz County is a popular vacation and recreation area.

The city of Santa Cruz, located along Highway 1, is the county's largest city and serves as the seat of government. A popular tourist destination, the city is known for its boardwalk, shopping and variety of restaurants. The county's other incorporated cities are Capitola, Scotts Valley and Watsonville.

According to 2000 Census data, Scotts Valley and Watsonville each experienced growth of over 32 percent in population since the 1990 Census. The towns of Boulder Creek, Ben Lomand, and Felton are located along State Highway 9 in the redwood forested San Lorenzo Valley.

The southern area of Santa Cruz County, part of the fertile Pajaro Valley, is a productive agricultural district yielding strawberries, apples, lettuce, brussels sprouts, and flowers. Food processing firms, closely tied to farming, are located in or near Watsonville, the major community in the region. Employment not directly related to agriculture or tourism, such as computer services, educational services, and electronics-related manufacturing are scattered throughout the county.

Mild weather, natural beauty, a major university, and proximity to the Silicon Valley are elements that contribute to the diverse economic opportunity as well as the quality of life in Santa Cruz County.

Santa Cruz County
(Santa Cruz-Watsonville Metropolitan Statistical Area)

Population of the County and Selected Cities
1980, 1990, 2000, and 2001

Political Subdivisions	1980 (a)	1990 (b)	2000 (c)	2001 (d)	Percent Change	
					1990 to 2000	2000 to 2001
Total	188,141	229,734	255,602	259,800	11.3%	1.6%
Capitola	9,095	10,171	10,033	10,200	-1.4%	1.7%
Santa Cruz	41,483	49,040	54,593	55,000	11.3%	0.7%
Scotts Valley	6,891	8,615	11,385	11,550	32.2%	1.4%
Watsonville	23,663	31,099	44,265	47,700	42.3%	7.8%
Balance of County	107,009	130,809	135,326	135,400	3.5%	0.1%

- (a) Census of Population, April 1, 1980.
(b) Census of Population, April 1, 1990.
(c) Census of Population, April 1, 2000.
(d) California Department of Finance revised estimates for January 1, 2001.
Parts may not add to total due to independent rounding.

Santa Cruz County



Population Estimates for California and Counties

	January		Percent Change		January		Percent Change
	2000	2001			2000	2001	
California	34,207,000	34,818,000	1.8%	Orange	2,867,700	2,925,700	2.0%
Alameda	1,455,300	1,479,100	1.6%	Placer	248,700	257,500	3.5%
Alpine	1,200	1,220	1.7%	Plumas	21,000	21,100	0.5%
Amador	35,250	35,400	0.4%	Riverside	1,557,800	1,609,400	3.3%
Butte	204,600	205,800	0.6%	Sacramento	1,230,700	1,258,600	2.3%
Calaveras	40,950	41,100	0.4%	San Benito	53,800	55,200	2.6%
Colusa	19,050	19,200	0.8%	San Bernardino	1,726,800	1,764,300	2.2%
Contra Costa	955,900	972,100	1.7%	San Diego	2,835,400	2,883,600	1.7%
Del Norte	28,050	28,100	0.2%	San Francisco	781,900	793,700	1.5%
El Dorado	157,200	159,700	1.6%	San Joaquin	568,300	583,700	2.7%
Fresno	810,300	823,900	1.7%	San Luis Obispo	248,200	252,100	1.6%
Glenn	26,800	26,800	0.0%	San Mateo	713,900	720,100	0.9%
Humboldt	127,400	127,800	0.3%	Santa Barbara	403,500	408,900	1.3%
Imperial	146,600	150,900	2.9%	Santa Clara	1,698,800	1,723,700	1.5%
Inyo	18,250	18,150	-0.5%	Santa Cruz	258,000	259,800	0.7%
Kern	671,300	685,800	2.2%	Shasta	164,300	165,700	0.9%
Kings	132,100	136,100	3.0%	Sierra	3,580	3,560	-0.6%
Lake	58,700	59,300	1.0%	Siskiyou	44,750	44,300	-1.0%
Lassen	34,850	35,900	3.0%	Solano	396,900	403,400	1.6%
Los Angeles	9,643,100	9,802,800	1.7%	Sonoma	461,700	468,800	1.5%
Madera	125,800	129,400	2.9%	Stanislaus	451,000	459,900	2.0%
Marin	248,700	250,400	0.7%	Sutter	79,700	80,900	1.5%
Mariposa	17,200	17,200	0.0%	Tehama	56,400	56,800	0.7%
Mendocino	87,100	87,300	0.2%	Trinity	13,150	13,050	-0.8%
Merced	212,800	216,700	1.8%	Tulare	373,100	377,500	1.2%
Modoc	9,550	9,600	0.5%	Tuolumne	54,800	55,200	0.7%
Mono	12,950	13,350	3.1%	Ventura	759,400	773,500	1.9%
Monterey	405,200	410,800	1.4%	Yolo	169,300	173,500	2.5%
Napa	125,100	126,200	0.9%	Yuba	60,900	60,800	-0.2%
Nevada	92,300	94,000	1.8%				

SOURCE: State of California, Department of Finance, Population Estimates for California Cities and Counties.
Report E-1. Sacramento, California, May 2001.

O*NET

The Occupational Information Network

The *Occupational Information Network* (O*NET) is the U.S. Department of Labor's recent replacement to the long-standing Dictionary of Occupational Titles (DOT). First released in 1998 and made available as an Internet application in 2001, O*NET was created for the general public to provide broad access to occupational information.

The O*NET system includes information on skills, abilities, knowledge, work activities, and interests associated with occupations. This information can be used to facilitate career exploration, vocational counseling, and a variety of human resources functions, such as developing job orders and position descriptions and aligning training with current workplace needs.

The gathering and classification of information was done with many different users in mind, including human resource personnel, industry analysts, students, rehabilitation counselors, workforce researchers, managers, displaced workers and more. Information in O*NET is available for over 950 occupations. Each occupational title and code is based on the most current version of the Standard Occupational Classification system.

O*NET OnLine offers users the chance to:

- Find occupations to explore, either by skill requirements or using key words
- Search for occupations that use their skills
- Look at related occupations with similar skills requirements
- View and print snapshot reports listing top tasks and skills requirements for an occupation
- View occupation details

- Use crosswalks to find occupations using titles from other classification systems
- Connect to other on-line career information resources to see current wage and outlook information
- Access comprehensive information on-line

The information currently available through O*NET was developed by job analysts; however, workers and employers themselves, describing what they do and the necessary skills, will contribute to data and ratings beginning in the year 2003.

The U.S. Department of Labor's Employment and Training Administration looked to both public and private entities in the development of O*NET. State-based Occupational Analysis Field Centers and Assessment Research and Development Program Centers provided regional support. Private sector firms are also assisting with the implementation of the project.

If it is to be current, comprehensive and inclusive, the O*NET System will require a continuous process of database building. DOL welcomes the participation of employers or representatives of organizations that can contribute occupational information. The massive and growing O*NET data collection and database will be maintained by the newly established National O*NET Consortium.

For further information contact O*NET:

O*NET Project
DOL Office of Policy and Research
200 Constitution Ave., NW, MS N5637
Washington, DC 20210
(202) 693-3660

<http://www.doleta.gov/programs/onet/>

Standard Occupational Classification (SOC)

The Standard Occupational Classification (SOC) 1998 System was developed in response to a growing need for a universal occupational classification system—a system which would allow government agencies and private industry to produce comparable data. The SOC system was designed to cover all occupations in which work is performed for pay or profit and will be used by all federal agencies to classify workers into occupational categories for the purpose of collecting, calculating, or disseminating data.

General Characteristics of the Revised SOC

This system classifies workers at four levels of aggregation:

- major group
- minor group
- broad occupation
- detailed occupation

All workers are classified into one of over 820 occupations, according to their occupational definition. To facilitate classification, all occupations are clustered into one of 23 major groups. Within these major groups, there are 96 minor groups, and 449 broad occupations. Each broad occupation includes detailed occupation(s) requiring similar job duties, skills, education, or experience.

The following example shows the hierarchical structure of the 1998 SOC:

19-0000 Life, physical, and social science occupations (*major group*)

19-000 Life scientists (*minor group*)

19-1020 Biological scientists (*broad occupation*)

19-1021 Biochemists and biophysicists (*detailed occupation*)

19-1022 Microbiologists (*detailed occupation*)

19-1023 Zoologists and wildlife biologists (*detailed occupation*)

19-1029 Biological scientists, all other (*detailed occupation*)

Data collected by the 2000 Census of Population will be coded to the 1998 SOC; the Department of Labor's Occupational Information Network (O*NET), adheres to the 1998 SOC. In fact, all federal government agencies that collect occupational data are expected to adopt the 1998 SOC over the next few years.

Additional information, updated revision plans, and information on the implementation of the 1998 SOC are available at the Bureau of Labor Statistics (BLS) Internet site:

<http://stats.bls.gov/soc>

Job Services for Employers and Job Seekers

The Employment Development Department (EDD) is the largest source of personnel recruitment in California. There is no fee to employers or job seekers. Employers may wish to place a job order with EDD or ask about other available services. Job seekers may wish to complete an application to be matched against employer job orders or to request other assistance in finding a job or training.

The **EDD Job Service** is the public employment service for the State of California. From locations in over 200 communities, the EDD Job Service program serves the State's 900,000 employers and the one million or more job seekers who use the services each year.

The EDD Job Service is authorized by the federal Wagner-Peyser Act, as amended by the Workforce Investment Act of 1998. The EDD plans and delivers the services in California in partnership with other employment and training organizations in the One-Stop Career Centers created by the Workforce Investment Act of 1998. The EDD's Job Service offers a variety of services that bring employers with job openings and qualified job seekers together.

CalJOBS – California's Internet system for linking employer job listings and job seeker resumes. CalJOBS is available at EDD Job Service locations, One-Stop Career Centers, and anywhere there is Internet access.

Special features of CalJOBS include:

- No fees
- Wide variety of job listings and job seekers
- Easy access:

<http://www.caljobs.ca.gov>

Employer Advisory Councils work closely with Job Service to sponsor employer seminars, job fairs and other events which provide information and guidance for job seekers and local business.

Additional Services to Job Seekers

- Job search workshops
- Referral to partner agencies that provide other employment related services, including training.

Additional Services to Employers

- Reemployment services for dislocated workers.
- Current labor market information.
- Focused recruitment campaigns.
- Locally coordinated workforce preparation services.

If you are interested in any of the above services, or would like information about the location of the Job Service office nearest you, contact the call center listed below.

Bay Area	415-749-7503
Los Angeles	213-833-7900
Orange	714-518-2315
Riverside	909-955-2200
Sacramento	916-227-0301
San Diego	619-266-4200

California's Labor Market and Occupational Information is only a click away ...

Use your computer to view and/or download important economic data directly from us —
24 hours a day, seven days a week!

<http://www.calmis.ca.gov>

Data available on-line:

Agriculture Statewide and county employment and earnings data for selected crops and industries.

Demographics Statewide and county census data, population tables, income statistics, and data for nondiscrimination programs.

Industry Current and historical employment data, projections of employment, hours and earnings, and size of firm data.

Labor Force Monthly, historical, and annual average labor force data by county, MSA, and statewide; labor market conditions in California, and employment characteristics.

Resources Contact lists for area consultants, local partners for the California Cooperative Occupational Information System (CCOIS), publications available, and resources for additional data.

Occupations Projections of employment by occupation, the California License Handbook, the California Occupational Guides, the Occupational Guide Wage Supplement and the Occupational Outlook Reports.

Visit our interactive on-line sites:

Labor Market Information for Economic Development (LMI4ED) Provides industry trends and occupational information in an interactive application. Users can search for data by county and industry or occupation, select individual items for display, and produce customized tables. LMI4ED is available at:

<http://www.lmi4ed.ca.gov>

California Career & Training Information System (CaCTIS) Provides job seekers and career development professionals easy access to occupational wages and outlook, training information and job openings. CaCTIS is available at:

<http://www.cactis.ca.gov>

Publications and Information: Publications Desk (916) 262-2162

Internet Assistance: (916) 262-2213 or (916) 262-2340

Related Websites

Local Government

CA local government agencies

http://www.ceres.ca.gov/geo_area/counties

Sacramento Area Commerce and Trade Organization

<http://www.sactoedc.org>

State Government

California's Home Page — Links to all state government agencies

<http://www.ca.gov>

EDD Home Page

<http://www.edd.ca.gov>

California Career Resource Network (CalCRN) — CalCRN is an interagency committee created to promote the development and use of occupational and career information.

<http://www.soicc.ca.gov>

California Department of Finance (DOF) — DOF provides demographic information, population estimates, and cost of living information.

<http://www.dof.ca.gov>

California One-Stop Career Centers

<http://www.sjtcc.ca.gov/sjtccweb/one-stop>

California School To Career (STC) — School-to-Career is a method of teaching that prepares students for college and the job market by integrating academic studies with real world applications and work based learning experiences.

<http://www.stc.ca.gov>

California's Job Bank

<http://www.caljobs.ca.gov>

Department Of Industrial Relations (DIR) — Worker's Compensation, labor law, and statistics.

<http://www.dir.ca.gov>

Federal Government

Federal Department of Labor, Bureau of Labor Statistics

<http://stats.bls.gov>

Bureau of the Census

<http://www.census.gov>

Library of Congress

<http://lcweb.loc.gov>

America's Job Bank

<http://www.ajb.dni.us>

Projections & Planning Information

Module B:

Labor Force

Table of Contents

Module B: LABOR FORCE

Introduction	B-v
Map	B-vii
Unemployment Rates	
United States, California and Counties	B-1
1987–2001 Annual Average Labor Force Data	B-2
1987–2001 Monthly Civilian Labor Force Data	B-3

Labor Force

Labor Force statistics are derived from the monthly Current Population Survey (CPS) of households conducted by the Bureau of Census for the Bureau of Labor Statistics (BLS). This monthly survey collects demographic data including employment and unemployment status for all states. The CPS sample consists of over 60,000 households nationwide with over 4,600 households in California. These data represent counts of individuals by place of residence rather than a count of jobs.

County-level labor force data, with the exception of Los Angeles County, are derived using a variety of information including CPS information, Wage and Salary Employment, and unemployment claims data for local areas.

Civilian Labor Force includes all non-institutional civilians, 16 years of age and older, who are working or looking for work: the sum of employed and unemployed.

Civilian Employment includes all individuals who are working, either for a wage or salary, self-employed, working at least one hour for pay or profit each week, or working at least 15 unpaid hours in a family business. Those who are on vacation, other kinds of leave, or involved in a labor dispute, are also counted as employed (whether or not they were paid for the time-off).

Civilian Unemployment includes those individuals who are not working but are able, available and looking for work.

Unemployment Rate is the number of unemployed individuals expressed as a percentage of the civilian labor force.

Suggestions for Users

Regular users of labor force data include grant writers, economic development professionals, government agencies and local social service agencies. This section provides suggestions for the first time user, the job hunter and the occasional user.

- County labor force data are not seasonally adjusted. It is important to request "not seasonally adjusted" labor force data for the state and the nation to make a valid comparison.
- The employment and unemployment figures tend to vary from month to month for many reasons. As a result, the annual average figures, over time, tend to be a better estimate of the labor force trends within the area.
- The unemployment rate may not reflect the economic conditions in all areas of the county. The labor market can vary greatly in different industries, in different occupations, and in different parts of the county.
- Month-to-month labor force data are a useful indicator of the seasonal changes in the area, such as outdoor activities, (i.e. construction), holiday hiring, school schedules, and agricultural patterns.
- California labor force data for years prior to 1990 are not directly comparable with data for 1990 and later years due to the introduction of the 1990 Census population controls.

You may want to consult the industry and occupational modules of this report for more information on economic conditions in the county, or speak with the Labor Market Information Division's area consultants who are located in the community and are knowledgeable about the economic activities in their counties.

Additional Sources of Information:

- Bureau of Labor Statistics,
Occupational Outlook Handbook
- California Association for Local
Economic Development (CALED)
- Local Chambers of Commerce
- Local Economic Development
Organizations
- Newspapers

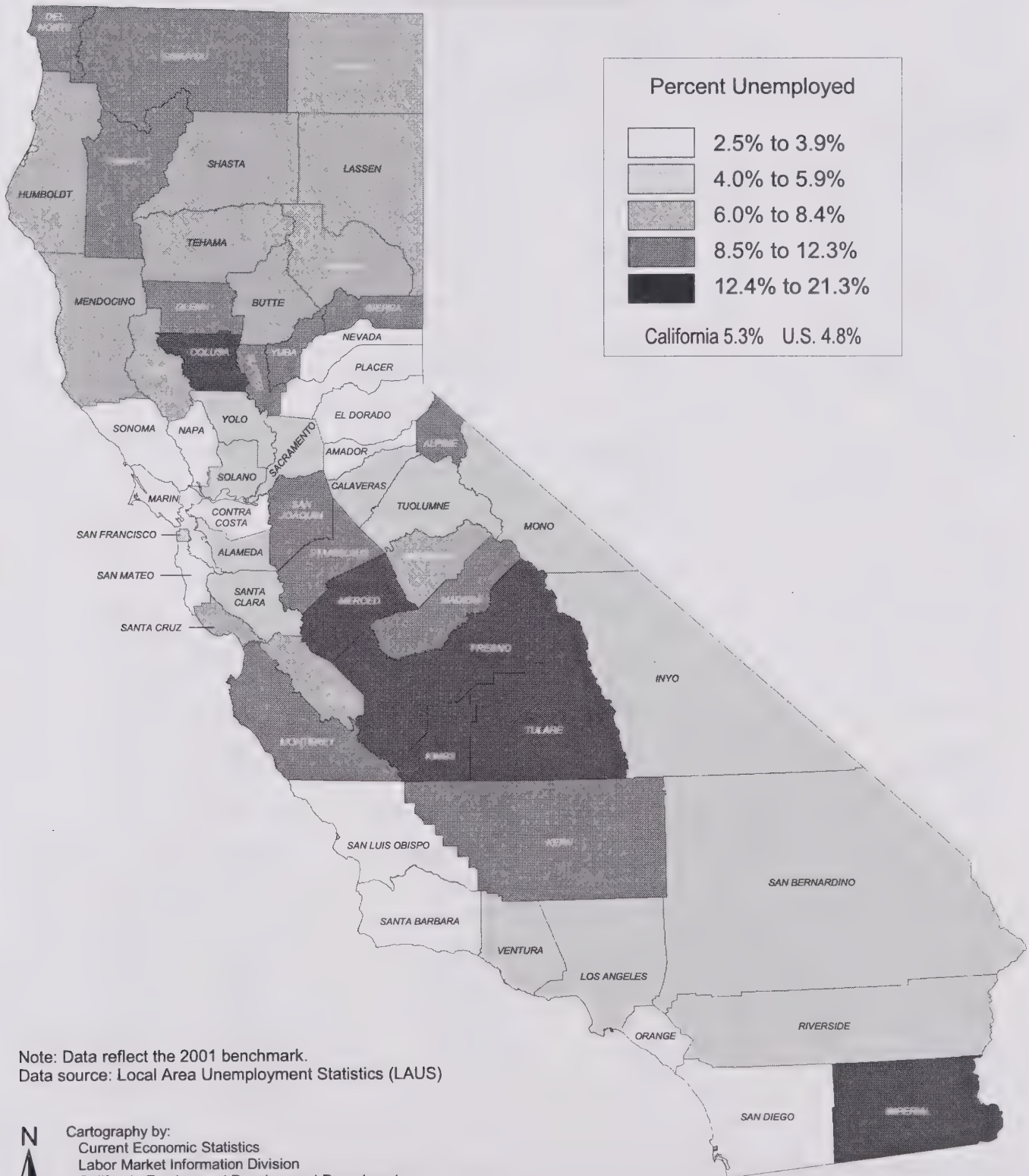
Electronic access to current data is available through the Employment Development Department's Internet address at:

<http://www.calmis.ca.gov>

For additional information or technical assistance with the Labor Market Information Division's Internet website, please call (916) 262-2162 and select option #2. To obtain contact information for local labor market consultants or to obtain current monthly data, customers may also call (916) 262-2162 or FAX (916) 262-2443.

County Unemployment Rates

2001 Annual Averages



Note: Data reflect the 2001 benchmark.
Data source: Local Area Unemployment Statistics (LAUS)

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 Cartography by:
 Current Economic Statistics
 Labor Market Information Division
 California Employment Development Department
www.calmis.ca.gov
 April 2002

United States, California and Counties
Unemployment Rates
2000, 2001 Annual Averages*

	2000	2001		2000	2001
U.S.	4.0	4.8			
CALIFORNIA	4.9	5.3			
Alameda	3.0	4.5	Orange	2.5	3.0
Alpine	8.2	9.0	Placer	3.2	3.6
Amador	8.4	3.9	Plumas	8.3	8.4
Butte	4.4	7.0	Riverside	5.5	5.2
Calaveras	7.0	5.9	Sacramento	4.2	4.2
Colusa	6.7	17.6	San Benito	7.8	8.2
Contra Costa	17.5	3.3	San Bernardino	4.8	4.8
Del Norte	2.7	8.7	San Diego	3.0	3.2
El Dorado	3.9	3.8	San Francisco	2.8	5.2
Fresno	14.3	13.7	San Joaquin	8.8	8.7
Glenn	11.9	11.2	San Luis Obispo	3.0	2.8
Humboldt	6.3	6.1	San Mateo	1.6	2.8
Imperial	26.3	21.3	Santa Barbara	3.7	3.5
Inyo	5.6	4.9	Santa Clara	2.0	4.5
Kern	11.3	10.5	Santa Cruz	5.6	6.1
Kings	14.0	13.8	Shasta	6.9	6.7
Lake	8.0	7.3	Sierra	7.7	9.7
Lassen	6.9	6.8	Siskiyou	9.5	9.4
Los Angeles	5.4	5.7	Solano	4.2	4.1
Madera	11.8	12.1	Sonoma	2.6	2.9
Marin	1.7	2.5	Stanislaus	10.4	10.2
Mariposa	7.8	6.3	Sutter	13.0	12.3
Mendocino	6.6	6.6	Tehama	6.9	6.4
Merced	14.4	14.0	Trinity	12.4	10.9
Modoc	8.3	7.0	Tulare	15.4	15.4
Mono	5.6	5.2	Tuolumne	6.0	5.5
Monterey	9.7	9.3	Ventura	4.5	4.5
Napa	3.2	3.3	Yolo	4.3	4.2
Nevada	3.6	3.7	Yuba	11.8	11.7

*March 2001 Benchmark figures.

Santa Cruz County
(Santa Cruz-Watsonville Metropolitan Statistical Area)
Civilian Labor Force, Employment and Unemployment
(2001 Benchmark)
Annual Averages 1987–2001

	Labor Force	Employment	Unemployment	Rate
2001	143,800	135,100	8,800	6.1%
2000	142,100	134,100	8,000	5.6%
1999	139,800	131,000	8,900	6.3%
1998	141,300	130,900	10,400	7.3%
1997	141,700	130,700	11,000	7.8%
1996	138,700	127,100	11,600	8.3%
1995	139,800	126,700	13,100	9.3%
1994	142,000	128,200	13,700	9.7%
1993	139,400	125,300	14,100	10.1%
1992	137,900	124,900	13,000	9.4%
1991	136,200	124,500	11,700	8.6%
1990	136,200	126,500	9,700	7.2%
1989	133,400	124,600	8,800	6.6%
1988	130,000	121,500	8,600	6.6%
1987	121,500	113,400	8,200	6.7%

Note: The unemployment rate is calculated using unrounded data. Due to the introduction of the 1990 census population figures, the data for years prior to 1990 are not comparable with data for 1990 and later years.

Santa Cruz County
(Santa Cruz-Watsonville Metropolitan Statistical Area)
Civilian Labor Force, Employment and Unemployment
(2001 Benchmark)

	Labor Force	Employment	Unemployment	Rate
2001 January	139,800	128,100	11,700	8.4%
February	141,500	129,800	11,700	8.2%
March	141,300	130,400	10,900	7.7%
April	142,100	132,900	9,200	6.5%
May	144,700	138,200	6,500	4.5%
June	148,200	141,800	6,300	4.3%
July	144,800	138,100	6,700	4.6%
August	145,600	139,400	6,300	4.3%
September	144,400	138,200	6,200	4.3%
October	145,000	137,500	7,500	5.2%
November	145,300	135,000	10,300	7.1%
December	143,100	131,200	11,900	8.3%
Annual Average	143,800	135,100	8,800	6.1%
2000 January	137,900	125,400	12,500	9.1%
February	140,900	128,800	12,100	8.6%
March	141,900	130,500	11,400	8.0%
April	141,800	132,300	9,500	6.7%
May	144,200	138,000	6,200	4.3%
June	147,100	141,000	6,100	4.2%
July	142,800	136,700	6,200	4.3%
August	142,900	137,900	5,000	3.5%
September	140,500	136,000	4,500	3.2%
October	141,600	136,500	5,000	3.6%
November	142,600	134,500	8,100	5.7%
December	141,100	131,600	9,500	6.7%
Annual Average	142,100	134,100	8,000	5.6%
1999 January	138,400	124,400	14,000	10.1%
February	139,600	126,000	13,600	9.7%
March	141,200	128,400	12,700	9.0%
April	141,900	130,800	11,100	7.8%
May	141,700	134,200	7,600	5.3%
June	143,100	135,600	7,500	5.2%
July	140,400	133,800	6,600	4.7%
August	139,100	133,100	6,000	4.3%
September	136,500	131,400	5,100	3.8%
October	138,600	133,400	5,200	3.8%
November	138,600	131,700	6,900	4.9%
December	138,700	128,700	10,000	7.2%
Annual Average	139,800	131,000	8,900	6.3%

Note: The unemployment rate is calculated using unrounded data. Due to the introduction of the 1990 census population figures, the data for years prior to 1990 are not comparable with data for 1990 and later years.

Santa Cruz County
(Santa Cruz-Watsonville Metropolitan Statistical Area)
Civilian Labor Force, Employment and Unemployment
(2001 Benchmark)

	Labor Force	Employment	Unemployment	Rate
1998 January	139,800	123,900	15,900	11.4%
February	140,600	125,700	14,900	10.6%
March	141,500	127,400	14,100	10.0%
April	140,800	128,600	12,200	8.7%
May	141,600	133,000	8,500	6.0%
June	143,600	135,600	8,000	5.6%
July	142,900	135,000	8,000	5.6%
August	141,900	134,700	7,200	5.1%
September	140,600	133,700	6,900	4.9%
October	140,900	133,400	7,400	5.3%
November	140,800	131,400	9,400	6.7%
December	140,500	128,900	11,700	8.3%
Annual Average	141,300	130,900	10,400	7.3%
1997 January	139,000	122,600	16,500	11.9%
February	141,200	125,400	15,900	11.2%
March	141,300	127,100	14,200	10.1%
April	141,900	129,500	12,300	8.7%
May	143,100	134,500	8,600	6.0%
June	145,600	137,100	8,600	5.9%
July	142,100	133,400	8,800	6.2%
August	141,600	134,100	7,500	5.3%
September	140,500	133,100	7,400	5.3%
October	142,600	133,900	8,700	6.1%
November	140,700	130,300	10,400	7.4%
December	140,400	127,400	13,000	9.3%
Annual Average	141,700	130,700	11,000	7.8%
1996 January	135,000	118,200	16,900	12.5%
February	136,500	120,100	16,400	12.0%
March	135,900	120,800	15,100	11.1%
April	137,900	125,200	12,700	9.2%
May	140,400	131,400	9,000	6.4%
June	142,400	133,300	9,100	6.4%
July	138,900	129,600	9,400	6.7%
August	139,200	130,900	8,300	5.9%
September	137,500	129,100	8,400	6.1%
October	141,000	132,300	8,600	6.1%
November	140,800	128,900	11,900	8.5%
December	138,700	125,600	13,100	9.4%
Annual Average	138,700	127,100	11,600	8.3%

Note: The unemployment rate is calculated using unrounded data. Due to the introduction of the 1990 census population figures, the data for years prior to 1990 are not comparable with data for 1990 and later years.

Santa Cruz County
(Santa Cruz-Watsonville Metropolitan Statistical Area)
Civilian Labor Force, Employment and Unemployment
(2001 Benchmark)

	Labor Force	Employment	Unemployment	Rate
1995 January	137,600	119,200	18,400	13.4%
February	138,500	120,500	18,000	13.0%
March	138,800	121,800	17,000	12.3%
April	139,800	125,300	14,500	10.3%
May	142,200	129,700	12,500	8.8%
June	144,100	133,300	10,800	7.5%
July	141,200	130,800	10,400	7.3%
August	141,100	131,100	10,000	7.1%
September	138,900	129,900	9,000	6.5%
October	139,700	130,100	9,600	6.9%
November	139,400	126,700	12,700	9.1%
December	135,800	122,000	13,800	10.2%
Annual Average	139,800	126,700	13,100	9.3%
1994 January	136,900	117,800	19,100	14.0%
February	139,400	119,800	19,600	14.1%
March	139,700	122,200	17,500	12.5%
April	141,900	126,900	15,000	10.6%
May	144,000	132,200	11,800	8.2%
June	145,500	134,400	11,200	7.7%
July	143,800	132,100	11,700	8.1%
August	143,800	133,700	10,200	7.1%
September	141,600	131,400	10,200	7.2%
October	143,100	132,200	10,900	7.6%
November	143,000	130,400	12,600	8.8%
December	140,500	125,500	15,000	10.7%
Annual Average	142,000	128,200	13,700	9.7%
1993 January	134,300	116,000	18,300	13.6%
February	137,200	118,200	19,000	13.8%
March	135,900	118,800	17,100	12.6%
April	137,300	124,000	13,300	9.7%
May	141,400	129,500	11,900	8.4%
June	142,300	130,100	12,100	8.5%
July	143,100	129,700	13,500	9.4%
August	140,600	129,600	11,000	7.8%
September	139,400	128,000	11,400	8.2%
October	141,600	128,600	13,000	9.2%
November	141,000	128,200	12,800	9.1%
December	138,600	122,900	15,700	11.3%
Annual Average	139,400	125,300	14,100	10.1%

Note: The unemployment rate is calculated using unrounded data. Due to the introduction of the 1990 census population figures, the data for years prior to 1990 are not comparable with data for 1990 and later years.

Santa Cruz County
(Santa Cruz-Watsonville Metropolitan Statistical Area)
Civilian Labor Force, Employment and Unemployment
(2001 Benchmark)

	Labor Force	Employment	Unemployment	Rate
1992 January	131,300	116,000	15,300	11.6%
February	133,900	117,700	16,200	12.1%
March	135,400	119,700	15,700	11.6%
April	135,000	122,400	12,600	9.3%
May	139,800	129,500	10,400	7.4%
June	141,800	129,900	11,900	8.4%
July	140,800	130,500	10,300	7.3%
August	140,900	129,500	11,400	8.1%
September	139,100	129,000	10,100	7.2%
October	138,000	127,200	10,800	7.8%
November	140,200	125,300	14,900	10.6%
December	139,000	122,200	16,700	12.0%
Annual Average	137,900	124,900	13,000	9.4%
1991 January	131,900	116,800	15,200	11.5%
February	133,100	118,400	14,700	11.0%
March	132,100	116,700	15,400	11.7%
April	136,000	122,000	14,000	10.3%
May	137,200	126,400	10,900	7.9%
June	139,800	129,200	10,500	7.5%
July	137,900	128,300	9,600	6.9%
August	137,500	128,800	8,700	6.3%
September	136,900	128,400	8,500	6.2%
October	137,500	128,500	9,000	6.5%
November	137,400	127,200	10,300	7.5%
December	136,600	123,300	13,200	9.7%
Annual Average	136,200	124,500	11,700	8.6%
1990 January	128,200	116,900	11,400	8.9%
February	130,600	118,300	12,300	9.4%
March	131,400	119,800	11,700	8.9%
April	137,600	125,500	12,100	8.8%
May	140,000	131,900	8,100	5.8%
June	141,200	133,800	7,400	5.3%
July	140,800	133,100	7,700	5.5%
August	140,000	132,400	7,600	5.4%
September	136,600	129,500	7,200	5.2%
October	135,700	127,600	8,200	6.0%
November	136,800	125,800	10,900	8.0%
December	135,200	122,900	12,300	9.1%
Annual Average	136,200	126,500	9,700	7.2%

Note: The unemployment rate is calculated using unrounded data. Due to the introduction of the 1990 census population figures, the data for years prior to 1990 are not comparable with data for 1990 and later years.

Santa Cruz County
(Santa Cruz-Watsonville Metropolitan Statistical Area)
Civilian Labor Force, Employment and Unemployment
(2001 Benchmark)

	Labor Force	Employment	Unemployment	Rate
1989 January	127,900	115,800	12,100	9.5%
February	129,500	117,100	12,400	9.6%
March	130,700	119,900	10,800	8.3%
April	133,300	122,300	11,000	8.3%
May	136,200	128,500	7,700	5.7%
June	137,700	130,200	7,500	5.4%
July	136,900	128,500	8,400	6.2%
August	135,500	129,400	6,100	4.5%
September	136,500	129,900	6,600	4.8%
October	136,000	129,600	6,400	4.7%
November	132,300	124,000	8,300	6.3%
December	128,500	120,200	8,300	6.5%
Annual Average	133,400	124,600	8,800	6.6%
1988 January	121,400	110,800	10,600	8.7%
February	122,700	112,100	10,600	8.6%
March	125,000	114,200	10,800	8.7%
April	132,100	123,500	8,600	6.5%
May	131,300	122,900	8,400	6.4%
June	133,300	125,800	7,500	5.6%
July	133,400	125,300	8,100	6.1%
August	133,900	126,300	7,600	5.6%
September	131,100	124,400	6,700	5.1%
October	133,600	126,700	6,900	5.1%
November	134,000	125,500	8,500	6.4%
December	128,400	119,900	8,500	6.6%
Annual Average	130,000	121,500	8,600	6.6%
1987 January	114,000	101,200	12,800	11.2%
February	115,000	103,500	11,500	10.0%
March	116,800	106,200	10,600	9.1%
April	121,400	112,900	8,500	7.0%
May	123,900	117,500	6,400	5.2%
June	125,500	119,300	6,200	4.9%
July	125,300	118,400	6,900	5.5%
August	126,400	120,200	6,200	4.9%
September	123,400	117,600	5,800	4.7%
October	123,400	116,700	6,700	5.4%
November	122,600	114,600	8,000	6.5%
December	120,800	112,400	8,400	6.9%
Annual Average	121,500	113,400	8,200	6.7%

Note: The unemployment rate is calculated using unrounded data. Due to the introduction of the 1990 census population figures, the data for years prior to 1990 are not comparable with data for 1990 and later years.

Projections & Planning Information

Module C:

Wage & Salary Employment

Table of Contents

Module C: Wage and Salary

Introduction	C-v
Commuter maps	C-vii
2000–2002 Annual Average Industry Employment Data	C-1
2000–2002 Monthly Industry Employment Data	C-2

Wage and Salary Employment

Industry employment data reflect jobs by “place of work” and by broad industry categories. The data do not include the self-employed, unpaid family workers or private household employees. Jobs located in a county or Metropolitan Statistical Area (MSA) that pay wages and salaries are counted, although workers may live outside the area. Jobs are counted regardless of the number of hours worked. Individuals who hold more than one job may be counted more than once.

Current Employment Statistics

These data are based on the Current Employment Statistics (CES) survey. The CES survey summarizes monthly employment, and hours and earnings data from a sample of California employers. This survey is also referred to as the establishment, or wage and salary employment survey. The estimates are revised in the following month as job information is received from additional employers. Final revisions to the statewide and local area data, referred to as “Benchmark data,” are made each March for the previous two years based on payroll tax reports submitted by California employers covered by the Unemployment Insurance program.

Classification

Formerly, industry employment data were coded using the Standard Industrial Classification (SIC) system. In 1998, California began to transition from SIC to the new North American Industry Classification System (NAICS).

NAICS is the product of a cooperative effort on the part of the statistical agencies of the United States, Canada, and Mexico. It uses a production-oriented approach to categorize economic units. Units with similar production processes are classified in the same industry. NAICS focuses on how products and services are created, as opposed to SIC which focuses on what is produced. Using NAICS yields significantly different industry groupings than those produced using SIC. Due to these differences, NAICS data will not be directly comparable to the SIC-based data for earlier years.

Many programs within EDD produce or use data by industry, but some of these programs have not

yet transitioned from SIC to NAICS. For example, while the official estimates of employment by industry (also known as the Current Employment Statistics or CES program) began publishing data by NAICS with the release of Benchmark and monthly average data in February of 2003, the projections of employment by industry and occupation will not incorporate NAICS codes until the release of the 2002–2012 data (anticipated release in late 2003 or early 2004).

Annual Average Data

Annual average data are derived by adding up the monthly data for each industry and dividing by twelve to determine an actual annual average. These annual average data may reflect major business openings, expansions, and closings. Or, these data may reflect trends affecting an entire industry such as economic conditions, structural and technological changes.

Users of Wage and Salary Data

Economic developers, firms considering relocation, government agencies, grant writers, universities and anyone preparing reports on employment use wage and salary employment information to identify local industry trends. People looking for work and those counseling or placing others may learn about prospects for employment in various industries. Anyone seeking background information may use the wage and salary industry employment tables to look at the county's economy as a whole; at one industry; and/or at related industries for a firm's suppliers or for potential markets.

Points to Consider

Monthly job estimates are not adjusted for seasonal changes in employment. It is important to keep in mind that month-to-month changes may be due to regular seasonal patterns in an industry. For instance, during the holiday shopping season, retail jobs increase and during the summer, there are more workers in the construction industry. On the other hand, changes may reflect new businesses, expansions, or closings. Comparison of monthly changes for the same period in prior years will provide a better understanding of whether the change is seasonal or atypical.

Monthly fluctuations in wage and salary employment are an essential part of the changes that occur in the dynamic economy of a county or region. It is important to study wage and salary employment data over time to evaluate the strength of the local economy.

Wage and salary employment data identify which industries have the largest number of jobs. However, an industry with a large number of workers may not necessarily be expanding; it may even be downsizing, while new and expanding industries may not have large numbers of existing jobs but are a good source for new job opportunities.

Annual average data, over time, tend to be a better indicator of employment trends for the various industries in an area.

Additional Sources of Information

You may consult the labor force and industry and occupational projections modules of this report for more information on economic conditions in the county. Or, you may speak with the Labor Market Information Division's (LMID) area consultants located throughout the state who are knowledgeable about the economic activities within their local areas. Other sources of information include:

- U. S. Bureau of Labor Statistics
- Local Chambers of Commerce
- Local Economic Development Organizations
- Local Newspapers
- Universities and Colleges

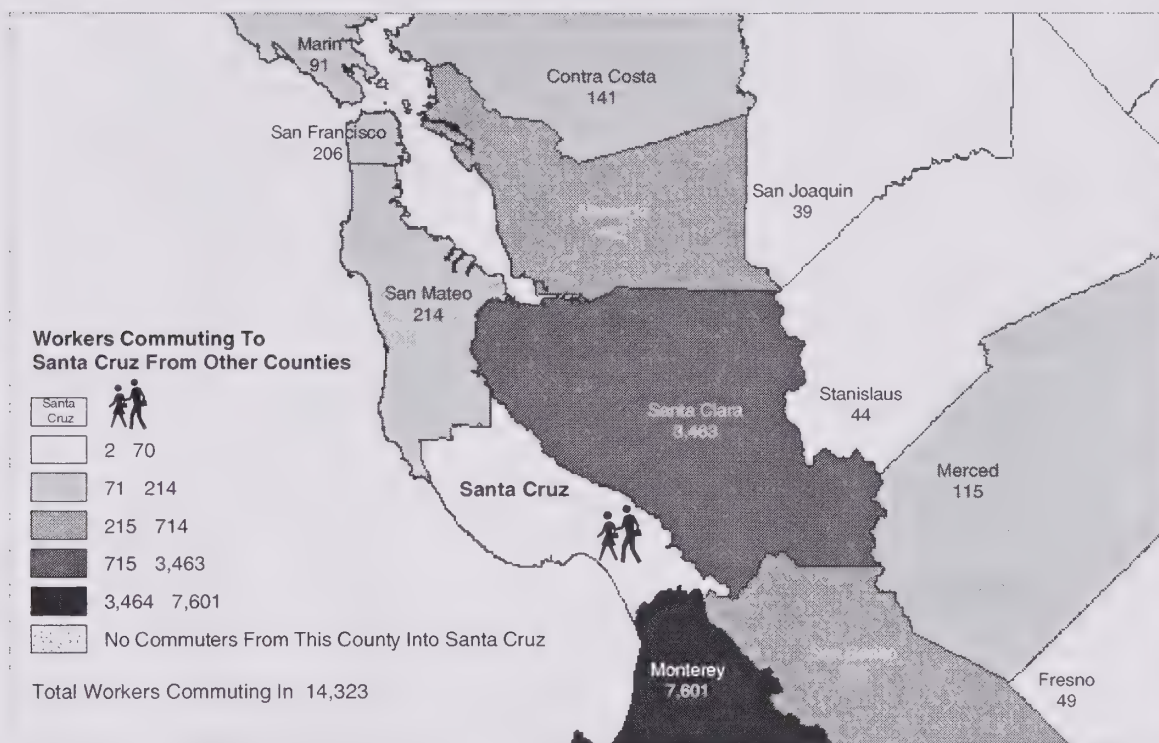
Automated Access

Access to current data is available through the Employment Development Department's Internet address at:

www.calmis.ca.gov

For technical assistance or additional information about the Employment Development Department's website, please call (916) 262-2162. To obtain contact information for local labor market consultants or to obtain current monthly data, customers may also call (916) 262-2162, or FAX (916) 262-2443.

Santa Cruz: County to County Commuting



Total Workers That Live And Work In Santa Cruz 93,084

Santa Cruz County
Wage and Salary Employment by Industry
(Data Not Seasonally Adjusted)
2000–2002 Annual Averages*

Industry Title	2000	2001	2002
Total Wage and Salary	105,600	106,300	104,100
Total Farm	8,300	7,800	8,300
Total Nonfarm	97,200	98,500	95,800
Total Private	77,700	78,200	75,000
Goods Producing	13,900	13,800	12,600
Natural Resources, Mining and Construction	4,500	4,900	4,700
Manufacturing	9,300	8,900	7,900
Durable Goods	5,300	5,200	4,400
Computer and Electronic Product Manufacturing	3,100	3,000	2,300
Residual-Miscellaneous Manufacturing	2,200	2,300	2,100
Nondurable Goods	4,000	3,700	3,500
Food Man & Beverage & Tobacco	2,700	2,300	2,200
Residual-Textile Mills	1,300	1,300	1,300
Service Providing	83,400	84,700	83,200
Trade, Transportation and Utilities	19,000	19,100	18,400
Wholesale Trade	3,600	3,500	3,200
Retail Trade	14,000	14,000	13,600
Food and Beverage Stores	3,500	3,600	3,500
General Merchandise Stores	1,500	1,500	1,500
Residual-Miscellaneous Store Retailers	9,000	8,900	8,600
Transportation, Warehousing and Utilities	1,400	1,700	1,600
Information	2,600	2,600	2,200
Financial Activities	4,100	3,900	3,800
Finance and Insurance	2,100	2,100	2,200
Real Estate and Rental and Leasing	2,000	1,700	1,600
Professional and Business Services	11,700	11,400	10,400
Educational and Health Services	10,600	11,000	11,600
Leisure and Hospitality	11,500	12,100	11,800
Arts, Entertainment, and Recreation	1,800	1,900	1,800
Accommodation and Food Service	9,700	10,200	9,900
Accommodation	1,600	1,700	1,500
Food Services and Drinking Places	8,100	8,500	8,500
Other Services	4,400	4,500	4,200
Government	19,500	20,200	20,800
Federal Government	700	600	600
State and Local Government	18,800	19,600	20,200
State Government	6,500	6,900	7,100
State Government Education	5,900	6,200	6,400
Other State Government	700	700	700
Local Government	12,300	12,700	13,000

*March 2002 Benchmark figures.

Santa Cruz County
Wage and Salary Employment by Industry
(Data Not Seasonally Adjusted)
Monthly January–December 2000*

Industry Title	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
Total Wage and Salary	96,100	99,300	100,800	103,500	110,100	113,400	107,700	109,000	108,800	107,500	106,700	103,700	105,600
Total Farm	3,500	4,400	4,800	6,700	11,400	13,200	10,600	11,900	11,400	9,100	8,000	5,100	8,300
Total Nonfarm	92,600	94,900	96,000	96,800	98,700	100,200	97,100	97,100	97,400	98,400	98,700	98,600	97,200
Total Private	73,700	75,100	75,900	77,000	78,000	79,900	79,400	79,400	78,800	78,400	78,400	78,600	77,700
Goods Producing	13,000	13,200	13,400	13,400	14,000	13,700	14,100	14,600	14,500	14,000	14,000	14,300	13,900
Natural Resources, Mining and Construction	4,300	4,200	4,300	4,300	4,400	4,600	4,600	4,800	4,800	4,700	4,700	4,700	4,500
Manufacturing	8,700	9,000	9,100	9,100	9,600	9,100	9,500	9,800	9,700	9,300	9,300	9,600	9,300
Durable Goods	5,000	5,100	5,100	5,000	5,000	5,100	5,500	5,500	5,500	5,400	5,500	5,600	5,300
Computer and Electronic Product Manufacturing	3,000	3,100	3,100	3,100	3,100	3,100	3,100	3,100	3,100	3,100	3,100	3,200	3,100
Residual-Miscellaneous Manufacturing	2,000	2,000	2,000	1,900	1,900	2,000	2,400	2,400	2,400	2,300	2,400	2,400	2,200
Nondurable Goods	3,700	3,900	4,000	4,100	4,600	4,000	4,000	4,300	4,200	3,900	3,800	4,000	4,000
Food Man & Beverage & Tobacco	2,400	2,600	2,700	2,700	3,200	2,600	2,600	3,000	2,900	2,600	2,500	2,600	2,700
Residual-Textile Mills	1,300	1,300	1,300	1,400	1,400	1,400	1,400	1,300	1,300	1,300	1,300	1,400	1,300
Service Providing	79,600	81,700	82,600	83,400	84,700	86,500	83,000	82,500	82,900	84,400	84,700	84,300	83,400
Trade, Transportation and Utilities	18,000	18,200	18,400	18,900	19,200	19,600	19,500	19,200	19,100	19,100	19,300	19,500	19,000
Wholesale Trade	3,400	3,500	3,600	3,500	3,700	3,800	3,700	3,600	3,600	3,500	3,400	3,400	3,600
Retail Trade	13,300	13,400	13,500	14,000	14,000	14,300	14,300	14,100	14,000	14,100	14,400	14,600	14,000
Food and Beverage Stores	3,400	3,500	3,500	3,500	3,500	3,500	3,600	3,500	3,600	3,500	3,600	3,500	3,500
General Merchandise Stores	1,600	1,500	1,400	1,400	1,500	1,500	1,400	1,400	1,500	1,600	1,700	1,800	1,500
Residual-Miscellaneous Store Retailers	8,300	8,400	8,600	9,100	9,000	9,300	9,300	9,200	8,900	9,000	9,100	9,300	9,000
Transportation, Warehousing and Utilities	1,300	1,300	1,300	1,400	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,400
Information	2,500	2,600	2,600	2,400	2,500	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600
Financial Activities	4,000	4,100	4,100	4,100	4,200	4,200	4,100	4,100	4,100	4,100	4,100	4,100	4,100
Finance and Insurance	2,100	2,100	2,100	2,100	2,200	2,200	2,100	2,100	2,100	2,100	2,100	2,100	2,100
Real Estate and Rental and Leasing	1,900	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
Professional and Business Services	11,100	11,300	11,400	11,700	11,600	12,200	11,800	11,900	11,900	11,800	11,700	11,700	11,700
Educational and Health Services	10,400	10,600	10,600	10,700	10,700	10,800	10,400	10,300	10,500	10,800	10,900	10,900	10,600
Leisure and Hospitality	10,300	10,700	10,900	11,300	11,400	12,300	12,600	12,400	11,900	11,600	11,500	11,200	11,600
Arts, Entertainment, and Recreation	1,600	1,600	1,700	1,900	1,800	2,100	2,200	2,100	1,900	1,800	1,700	1,500	1,800
Accommodation and Food Service	8,700	9,100	9,200	9,400	9,600	10,200	10,400	10,300	10,000	9,800	9,800	9,700	9,700
Accommodation	1,400	1,400	1,400	1,500	1,600	1,800	1,900	1,900	1,700	1,600	1,600	1,600	1,600
Food Services and Drinking Places	7,300	7,700	7,800	7,900	8,000	8,400	8,500	8,400	8,300	8,200	8,200	8,100	8,100
Other Services	4,400	4,400	4,500	4,500	4,400	4,500	4,300	4,300	4,200	4,400	4,300	4,300	4,400

*March 2002 Benchmark figures.

Santa Cruz County
Wage and Salary Employment by Industry
(Data Not Seasonally Adjusted)
Monthly January–December 2000*

Industry Title	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
Government	18,900	19,800	20,100	19,800	20,700	20,300	17,700	17,700	18,600	20,000	20,300	20,000	19,500
Federal Government	600	600	600	600	1,000	1,000	800	800	600	600	600	600	700
State and Local Government	18,300	19,200	19,500	19,200	19,700	19,300	16,900	16,900	18,000	19,400	19,700	19,400	18,800
State Government	6,400	6,700	6,700	6,600	6,900	6,800	5,800	5,700	6,000	6,800	7,000	6,800	6,500
State Government Education	5,800	6,100	6,100	6,000	6,200	6,100	5,100	5,000	5,300	6,100	6,300	6,100	5,900
Other State Government	600	600	600	600	700	700	700	700	700	700	700	700	700
Local Government	11,900	12,500	12,800	12,600	12,800	12,500	11,100	11,200	12,000	12,600	12,700	12,600	12,300

*March 2002 Benchmark figures.

Santa Cruz County
Wage and Salary Employment by Industry
(Data Not Seasonally Adjusted)
Monthly January–December 2001*

Industry Title	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
Total Wage and Salary	99,300	101,500	102,800	105,600	110,800	114,300	108,900	109,800	109,600	107,600	104,800	100,700	106,300
Total Farm	3,100	4,000	3,700	5,800	10,100	12,300	10,800	11,900	11,300	9,500	7,200	4,300	7,600
Total Nonfarm	96,200	97,500	99,100	99,800	100,700	102,000	98,100	97,900	98,300	98,100	97,600	96,400	98,500
Total Private	76,700	77,400	78,600	79,100	79,400	80,600	79,400	79,600	78,500	77,300	76,500	75,800	78,200
Goods Producing	14,000	14,000	14,100	13,900	13,700	13,700	13,900	14,100	13,800	13,600	13,400	13,000	13,800
Natural Resources, Mining and Construction	4,600	4,600	4,800	4,900	4,900	5,000	5,100	5,300	5,000	4,900	4,800	4,700	4,900
Manufacturing	9,400	9,400	9,300	9,000	8,800	8,700	8,800	8,800	8,800	8,700	8,600	8,300	8,900
Durable Goods	5,600	5,600	5,600	5,400	5,300	5,200	5,200	5,100	5,100	5,000	4,900	4,800	5,200
Computer and Electronic Product Manufacturing	3,200	3,100	3,200	3,100	3,000	2,900	3,000	2,900	2,900	2,800	2,700	2,700	3,000
Residual-Miscellaneous Manufacturing	2,400	2,500	2,400	2,300	2,300	2,300	2,200	2,200	2,200	2,200	2,200	2,100	2,300
Nondurable Goods	3,800	3,800	3,700	3,600	3,500	3,500	3,600	3,700	3,700	3,700	3,700	3,500	3,700
Food Man & Beverage & Tobacco	2,400	2,400	2,300	2,200	2,100	2,100	2,200	2,400	2,500	2,500	2,500	2,300	2,300
Residual-Textile Mills	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,300	1,200	1,200	1,200	1,200	1,300
Service Providing	82,200	83,500	85,000	85,900	87,000	88,300	84,200	83,800	84,500	84,500	84,200	83,400	84,700
Trade, Transportation and Utilities	18,800	18,800	19,100	18,900	19,300	19,600	19,200	19,100	19,100	19,000	18,900	19,100	19,100
Wholesale Trade	3,300	3,300	3,400	3,400	3,600	3,700	3,500	3,500	3,500	3,500	3,400	3,400	3,500
Retail Trade	13,900	13,900	14,000	13,900	14,000	14,100	14,000	13,900	13,900	13,800	13,900	14,100	14,000
Food and Beverage Stores	3,500	3,500	3,500	3,500	3,500	3,600	3,600	3,600	3,600	3,600	3,600	3,600	3,600
General Merchandise Stores	1,500	1,500	1,500	1,400	1,400	1,400	1,400	1,400	1,400	1,500	1,600	1,700	1,500
Residual-Miscellaneous Store Retailers	8,900	8,900	9,000	9,000	9,100	9,100	9,000	8,900	8,900	8,700	8,700	8,800	8,900
Transportation, Warehousing and Utilities	1,600	1,600	1,700	1,600	1,700	1,800	1,700	1,700	1,700	1,700	1,600	1,600	1,700
Information	2,700	2,700	2,700	2,700	2,700	2,700	2,600	2,600	2,600	2,500	2,400	2,400	2,600
Financial Activities	3,800	3,900	3,900	4,000	3,900	3,900	3,900	4,000	3,800	3,800	3,900	3,800	3,900
Finance and Insurance	2,000	2,100	2,100	2,100	2,100	2,100	2,100	2,200	2,100	2,200	2,300	2,300	2,100
Real Estate and Rental and Leasing	1,800	1,800	1,800	1,900	1,800	1,800	1,800	1,800	1,700	1,600	1,600	1,500	1,700
Professional and Business Services	11,600	11,600	11,800	11,900	11,600	11,900	11,400	11,300	10,900	11,100	10,600	10,600	11,400
Educational and Health Services	10,600	10,800	10,900	10,900	11,100	11,000	10,700	10,800	11,100	11,200	11,500	11,600	11,000
Leisure and Hospitality	10,900	11,300	11,700	12,300	12,600	13,000	13,100	13,100	12,600	11,800	11,500	11,000	12,100
Arts, Entertainment, and Recreation	1,500	1,700	1,800	2,000	2,000	2,200	2,300	2,200	2,100	1,900	1,700	1,400	1,900
Accommodation and Food Service	9,400	9,600	9,900	10,300	10,600	10,800	10,800	10,900	10,500	9,900	9,800	9,600	10,200
Accommodation	1,500	1,500	1,600	1,600	1,700	1,800	1,900	1,900	1,800	1,500	1,500	1,500	1,700
Food Services and Drinking Places	7,900	8,100	8,300	8,700	8,900	9,000	8,900	9,000	8,700	8,400	8,300	8,100	8,500
Other Services	4,300	4,300	4,400	4,500	4,500	4,800	4,600	4,600	4,600	4,300	4,300	4,300	4,500

*March 2002 Benchmark figures.

Santa Cruz County
Wage and Salary Employment by Industry
(Data Not Seasonally Adjusted)
Monthly January–December 2001*

Industry Title	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
Government	19,500	20,100	20,500	20,700	21,300	21,400	18,700	18,300	19,800	20,800	21,100	20,600	20,200
Federal Government	600	600	600	600	600	600	600	600	600	600	600	600	600
State and Local Government	18,900	19,500	19,900	20,100	20,700	20,800	18,100	17,700	19,200	20,200	20,500	20,000	19,600
State Government	6,700	6,900	7,000	7,100	7,400	7,500	6,400	6,200	6,600	7,300	7,300	6,900	6,900
State Government Education	6,100	6,300	6,300	6,400	6,600	6,700	5,600	5,400	5,800	6,600	6,600	6,200	6,200
Other State Government	600	600	700	700	800	800	800	800	800	700	700	700	700
Local Government	12,200	12,600	12,900	13,000	13,300	13,300	11,700	11,500	12,600	12,900	13,200	13,100	12,700

*March 2002 Benchmark figures.

Santa Cruz County
Wage and Salary Employment by Industry
(Data Not Seasonally Adjusted)
Monthly January–December 2002*

Industry Title	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
Total Wage and Salary	96,700	98,200	100,000	103,300	107,400	110,200	108,300	107,700	108,400	106,800	103,600	98,100	104,100
Total Farm	3,700	4,100	4,700	6,400	9,600	12,000	12,300	12,100	12,000	10,100	7,700	4,600	8,300
Total Nonfarm	93,000	94,100	95,300	96,900	97,800	98,200	96,000	95,600	96,400	96,700	95,900	93,500	95,800
Total Private	72,300	72,900	73,800	75,000	76,000	76,600	76,900	77,000	76,300	75,500	74,700	73,400	75,000
Goods Producing	12,200	12,300	12,600	13,000	12,900	12,700	12,700	13,000	12,700	12,700	12,500	11,900	12,600
Natural Resources, Mining and Construction	4,400	4,400	4,600	4,900	5,000	5,000	4,800	4,800	4,800	4,900	4,700	4,600	4,700
Manufacturing	7,800	7,900	8,000	8,100	7,900	7,700	7,900	8,200	7,900	7,800	7,800	7,300	7,900
Durable Goods	4,800	4,800	4,700	4,500	4,400	4,300	4,300	4,300	4,200	4,100	4,100	4,100	4,400
Computer and Electronic Product Manufacturing	2,800	2,600	2,500	2,400	2,200	2,200	2,200	2,100	2,100	2,000	2,000	2,000	2,300
Residual-Miscellaneous Manufacturing	2,000	2,200	2,200	2,100	2,200	2,100	2,100	2,200	2,100	2,100	2,100	2,100	2,100
Nondurable Goods	3,000	3,100	3,300	3,600	3,500	3,400	3,600	3,900	3,700	3,700	3,700	3,200	3,500
Food Man & Beverage & Tobacco	1,800	1,900	2,000	2,300	2,200	2,200	2,300	2,500	2,500	2,500	2,500	2,000	2,200
Residual-Textile Mills	1,200	1,200	1,300	1,300	1,300	1,200	1,300	1,400	1,200	1,200	1,200	1,200	1,300
Service Providing	80,800	81,800	82,700	83,900	84,900	85,500	83,300	82,600	83,700	84,000	83,400	81,600	83,200
Trade, Transportation and Utilities	18,000	17,900	18,100	18,100	18,700	18,800	18,700	18,700	18,700	18,500	18,500	18,600	18,400
Wholesale Trade	3,100	3,200	3,200	3,200	3,400	3,400	3,400	3,400	3,400	3,200	3,000	2,900	3,200
Retail Trade	13,400	13,200	13,300	13,400	13,700	13,800	13,700	13,700	13,700	13,700	13,800	14,000	13,600
Food and Beverage Stores	3,500	3,400	3,500	3,500	3,500	3,500	3,500	3,600	3,500	3,500	3,500	3,500	3,500
General Merchandise Stores	1,400	1,300	1,300	1,500	1,600	1,500	1,500	1,500	1,500	1,500	1,600	1,700	1,500
Residual-Miscellaneous Store Retailers	8,500	8,500	8,500	8,400	8,600	8,800	8,700	8,600	8,700	8,700	8,700	8,800	8,600
Transportation, Warehousing and Utilities	1,500	1,500	1,600	1,500	1,600	1,600	1,600	1,600	1,600	1,600	1,700	1,700	1,600
Information	2,300	2,300	2,300	2,200	2,200	2,300	2,200	2,200	2,200	2,100	2,200	2,300	2,200
Financial Activities	3,700	3,800	3,900	3,900	3,900	3,900	3,800	3,700	3,800	3,800	3,700	3,700	3,800
Finance and Insurance	2,200	2,200	2,300	2,300	2,300	2,300	2,200	2,100	2,200	2,200	2,200	2,200	2,200
Real Estate and Rental and Leasing	1,500	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,500	1,500	1,600
Professional and Business Services	9,800	9,800	9,900	10,000	10,200	10,400	11,000	10,800	10,700	10,900	10,600	10,600	10,400
Educational and Health Services	11,500	11,700	11,700	11,800	11,900	11,700	11,400	11,400	11,600	11,600	11,700	11,700	11,600
Leisure and Hospitality	10,800	11,100	11,200	11,900	12,000	12,500	12,600	12,800	12,200	11,700	11,400	10,800	11,800
Arts, Entertainment, and Recreation	1,600	1,800	1,700	2,000	2,000	2,200	2,200	2,200	1,900	1,600	1,400	1,100	1,800
Accommodation and Food Service	9,200	9,300	9,500	9,900	10,000	10,300	10,400	10,600	10,300	10,100	10,000	9,700	9,900
Accommodation	1,300	1,300	1,400	1,500	1,500	1,600	1,700	1,700	1,600	1,500	1,400	1,200	1,500
Food Services and Drinking Places	7,900	8,000	8,100	8,400	8,500	8,700	8,700	8,900	8,700	8,600	8,600	8,500	8,500
Other Services	4,000	4,000	4,100	4,100	4,200	4,300	4,500	4,400	4,400	4,200	4,100	3,800	4,200

*March 2002 Benchmark figures.

Santa Cruz County
Wage and Salary Employment by Industry
(Data Not Seasonally Adjusted)
Monthly January–December 2002*

Industry Title	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
Government	20,700	21,200	21,500	21,900	21,800	21,600	19,100	18,600	20,100	21,200	21,200	20,100	20,800
Federal Government	600	600	600	600	600	600	600	600	600	600	600	600	600
State and Local Government	20,100	20,600	20,900	21,300	21,200	21,000	18,500	18,000	19,500	20,600	20,600	19,500	20,200
State Government	7,100	7,400	7,400	7,400	7,500	7,500	6,500	6,300	6,800	7,300	7,500	6,700	7,100
State Government Education	6,400	6,700	6,700	6,700	6,800	6,800	5,800	5,600	6,100	6,700	6,800	6,000	6,400
Other State Government	700	700	700	700	700	700	700	700	700	600	700	700	700
Local Government	13,000	13,200	13,500	13,900	13,700	13,500	12,000	11,700	12,700	13,300	13,100	12,800	13,000

*March 2002 Benchmark figures.

Projections & Planning Information

Module D:

Projections

INTRODUCTION

to Industry and Occupational Projections

Using Projections Data

The projections contained in these tables provide information for estimating job opportunities, developing training programs, and gaining an insight into future employment trends. However, before reaching any final conclusions, the user should consider the following:

Remember that these data are estimates. They were developed based on the assumption that historical trends will continue into the future. However, events may occur during the seven-year projection period that are impossible to predict. Events such as military base closures, major business closures or openings and natural disasters can all have a major impact on employment levels.

Do not use these projections as your sole source of information. Use other, more recent sources of local economic data to corroborate the projection data. This information may be found in other documents such as those published by the Employment Development Department's Labor Market Information Division, local chambers of commerce, or local economic development agencies.

Projections employment data are annual averages. These averages may not accurately portray seasonal occupations or industries such as those found in agriculture, retail sales, recreation, and construction.

Employment levels stated reflect workers who are covered by the Unemployment Insurance program. As a result, industries that are made up largely of individuals who are

self-employed will be understated. Examples include industries such as real estate, hair salons, and bookkeeping. Occupations such as dental hygienists and consultants will also show an understated level of employment.

Industry Projections

Projections by industry forecast the anticipated changes within an industry over time. Forecasts for each county are based on the county's past employment trends and are refined by a review of current economic developments within the local community. The effect of State-level economic trends are also considered.

Industry employment projections utilize industry employment data from both the Current Employment Statistics (CES) program, and the Employment Payroll (ES202) program. There is a certain amount of error built into both systems. These errors may include employers classified in the wrong industry, incorrect employment levels reported by the employer and employment reported in the wrong county.

If an industry shows a decrease in future employment, it may be that only one or two industry components are experiencing the decline and other components are still expected to hire new workers. It is best to investigate all sectors of the industry. For example, retail trade has several components: building materials and garden supplies; general merchandise stores; food stores, automotive dealers and service stations; and apparel and accessory stores, to name a few.

Geographical differences account for differing employment opportunities. If an individual is considering relocating from one area of the state to another, the size of the industry and its expected growth level need to be kept in mind. Small rural counties will not have the same employment possibilities as do the larger metropolitan areas.

Knowing Future Industry Trends:

- ✓ helps economic development professionals foster compatible growth and promote the county's strengths,
- ✓ helps local government agencies, non-profit agencies, researchers and other interested parties formulate plans and proposals,
- ✓ helps people looking for work and those doing counseling and/or job placement to learn about employment opportunities in various industries.

Occupational Projections

Projections by occupation estimate the changes in occupational employment over time resulting from two principal causes - growth and technology. Changes in the number, size and type of employers within a given geographical area will affect the demand for certain occupations. Also, technological advances or changes in laws or regulations may affect the occupational mix.

County occupational projections are prepared for all but the smaller counties which are grouped together to produce projections at the multicounty level.

General changes in the work place affect some occupations. Jobs may be created, eliminated or consolidated because of restructuring or regulations affecting the requirements for the job. For example, personal computers and word processing programs eliminated many typist jobs, but created a need for word processors.

An occupational title does not give details about the occupation. An individual starting a career search may want to look at the various occupations in this module, choose any that are of interest and then do further research on the occupation or occupations of choice.

There are other sources of information (listed below) about specific occupations and the details, such as skills and educational requirements, hourly earnings, benefits, working conditions and advancement opportunities.

Industry staffing patterns used for the projections process are developed from the annual OES Survey of employers. The survey utilizes a sample of the entire universe of Unemployment Insurance (UI) covered employers. Because it is a survey, it is important that the following points be considered:

- ✓ There is inherent statistical error as a result of both the sampling process and the level of employer response to the survey mailings.
- ✓ The OES staffing patterns may contain errors because of the problems employers may have in completing the survey. These errors typically include misunderstanding of survey instructions, misinterpretation of occupational definitions and/or titles contained on the forms, and clerical errors in filling out the forms.
- ✓ The employer's response to the survey may reflect conditions that are atypical. The employer may be experiencing a temporary shutdown, seasonal high or low employment, or a temporary increase in demand for his/her product or service.

Occupational projections data indicate the major local occupations and which occupations are likely to offer the greatest number of job opportunities. When possible, the user should focus on larger groups rather than specific occupations. Some occupations may not appear in published tables because of the

very small number of people employed in that area or because of confidentiality concerns.

Although an occupation may be stable and is not expected to grow, it does not mean that there are no opportunities for employment. All occupations have turnover opportunities - individuals change or leave their jobs permanently for varying reasons. High turnover, especially in occupations that require lower-skill levels, would mean that there are frequent openings even though there is little or no growth.

The occupational projections data are prepared for employment and training planners, vocational educators, and others who need information on future employment by occupation. The outlook information can be used in making occupational training decisions and career choices. Employers considering expansion or relocation may find the data helpful in understanding the occupational composition and trends in a county or geographic region.

Additional Sources of Information

For additional information on economic conditions in a particular county, you may contact the Labor Market Information Division's area consultants who are located in the community and are knowledgeable about the economic activities within the counties that they serve, and the local One Stop locations where additional publications on labor market information may be obtained. Other sources of information include:

- Wage And Salary Employment by Industry
- Bureau of Labor Statistics, Occupational Outlook Handbook
- California Occupational Guides
- Bureau of Labor Statistics, Dictionary of Occupational Titles

- California Association for Local Economic Development (CALED)
- Local Chambers of Commerce
- Local Economic Development Organizations
- Local Newspapers
- Standard Industrial Classification Manual

Automated Access

Electronic access to current data is available through the Employment Development Department's Internet address at:

<http://www.calmis.ca.gov>

For technical assistance or additional information about the Employment Development Department's Internet website, please call (916) 262-2162 and select option #2. Customers may also call (916) 262-2162 or FAX (916) 262-2443 to order other publications.

Description Of Industry and Occupational Tables

Employment includes nonagricultural wage and salary workers except for self-employed persons, unpaid family workers, private household workers, and those involved in labor-management trade disputes. For the Federal government sector, employment includes all civilian employees regardless of the activities in which they are engaged.

An **industry division** refers to a distinct group of private, public, or nonprofit enterprises engaged in producing goods or providing services. With the exception of government, industries are classified by the Standard Industrial Classification (SIC) system. Industries are grouped into ten major categories, according to the economic activity involved. The ten major categories or industry divisions are:

Agriculture, Forestry, and Fishing (SIC 01-09) includes establishments primarily engaged in agricultural production, forestry, commercial fishing, hunting and trapping, and related services.

Mining (SIC 10-14) includes all establishments involved in the extraction of minerals, crude petroleum, and natural gas. It includes quarrying, well operations, milling, and other related activities.

Construction (SIC 15-17) includes establishments engaged in contract construction. This includes new work, additions, alterations, and repairs performed by general and special trade contractors.

Manufacturing (SIC 20-39) includes establishments which are usually described as plants, factories, or mills that are engaged in producing or processing non-durable or durable goods. These characteristically use power-driven machines and material-handling equipment.

Transportation and Public Utilities (SIC 40-49) includes enterprises engaged in passenger and freight transportation by surface, water, and air and warehousing and other transportation services. It also includes the communications complex of telephone, telegraph, radio, and television; and the utilities providing gas, electric, and sanitary services.

Wholesale Trade (SIC 50-51) includes establishments involved in the selling of merchandise to retailers; to industrial, commercial, farm, construction contractors, or professional business users; or to other wholesalers.

Retail Trade (SIC 52-59) includes establishments involved in the selling of merchandise for personal or household consumption and rendering services incidental to the sale of goods.

Finance, Insurance, and Real Estate (SIC 60-67) includes banks, savings and loan institutions, and security and commodity brokerages, insurance agencies and carriers, real estate sales and management offices, and rental and planning agencies.

Services (SIC 70-89) includes establishments such as hotels, laundries, auto repair shops, theaters, legal services, advertising services, private schools and hospitals, and nonprofit organizations which are engaged in rendering a variety of services to individuals and businesses.

Government includes the legislative, judicial, administrative, and regulatory activities of federal, state, local and international governments. It also includes federal, state, and local government hospitals and education.

Industry Tables

Employment By Major Industry - Table 1

This table shows 1997 estimated employment and 2004 projected employment along with the percentage of total employment for each major industry division.

Employment By Industry - Table 2

This table shows employment and projected employment by industry. The number of jobs is estimated for 1997 and projected for 2004. The column entitled "SIC" lists the Standard Industrial Classification code for each industry grouping. The column labeled "Absolute Change" provides the projected change in employment between 1997 and 2004. The "Percent Change" column is the growth rate over the seven-year period.

Occupational groups are groups of occupations with similar skills and/or educational requirements, based on the OES groupings. There are over 800 detailed occupations and close to 100 summary level occupations in the Occupational Employment Statistics (OES) classification system. The seven occupational groups are listed below.

Managers And Administrative occupations are top and mid-level managers, administrators, and executives. Primary duties are policy making, planning, staffing, directing or controlling the activities of a firm. First-line supervisors are excluded from this category.

Professional, Paraprofessional, And Technical occupations are concerned with theoretical or practical aspects of such fields as science, art, education, health, law, and business relations. Professional occupations generally require long and intensive preparation, while technical occupations work closely with professional personnel and are required to have a combination of basic scientific knowledge and specialized education.

Sales And Related occupations are concerned with influencing customers to buy commodities, services, real estate, and investments.

Clerical And Administrative Support occupations prepare, transcribe, systematize, and preserve written communications and records; distribute information; and collect accounts.

Service Occupations prepare and serve food and drink; provide lodging and related services; provide grooming, cosmetic, and other personal and health care services; maintain and clean clothing and other wearing apparel; provide protection for people and property; attend to the comfort or requests of patrons of amusement and recreation facilities; and perform cleaning and maintenance services in the interiors of buildings.

Agricultural, Forestry, And Fishing occupations in this report include only forestry workers, nursery workers, animal caretakers, and gardeners and groundskeepers.

Production, Construction, Operating, Maintenance, and Material Handling are skilled, semi-skilled, and unskilled workers performing machine and manual tasks involving production, construction, operating maintenance, repair, and material handling operations.

Occupational Tables

Employment By Major Occupational Group - Table 3

This table shows 1997 and 2004 employment and projected employment for the seven major occupational groups. The "Percent of Total" column displays the percentage of total employment each major occupational group represents. The "Absolute Change" column gives the number of job opportunities resulting from the creation of new jobs. "Percent Change" shows the percentage change for each occupational group.

Occupations With The Greatest Absolute Job Growth - Table 4

This table lists the 50 occupations that are projected to register the largest absolute change between 1997 and 2004. In general, these occupations are numerically large. Some have average projected rates of growth, but because of their employment size will add significant numbers of new jobs over the 1997-2004 period.

Occupations With The Fastest Job Growth - Table 5

This table lists the 50 occupations with the greatest projected percentage increases. It provides a different perspective to future occupational employment changes. It is important to note that some of these occupations are increasing rapidly from relatively small employment levels and are not necessarily found in Table 4.

Occupational Employment Projections - Table 6

This table provides occupational detail for up to 800 occupations. Annual average employment in each occupation is shown for 1997 and 2004. The column headed "Absolute Change" presents the number of job opportunities resulting from the creation of new jobs. The "Percent Change" column shows the percentage change for each occupation. The next column, "Openings Due to Separations", shows job opportunities that are created by workers leaving the occupation. Also included in this table is the Occupational Employment Statistics (OES) codes column. It shows the distinctive California OES code for each occupational title.

Each occupation in Table 6 is identified by a line number. The Alphabetical Index of Occupations section found in this module may be used to locate individual occupations in the detailed

table. The same line numbers are used in all area reports for 1997-2004. Line numbers may be different for other time periods. Not all line numbers appear in all counties; missing line numbers indicate occupations with no employment or employment below the area's cutoff point for publishing.

Occupations With The Most Openings - Table 7 (Growth Plus Separations)

This table lists the occupations that are projected to register the largest absolute growth and separations between 1997 and 2004. In general, these occupations are numerically large. Some have average projected rates of growth, but because of their employment size will add significant numbers of new job openings over the 1997-2004 period.

Occupations With Projected Decline - Table 8

This table lists the occupations that are projected to decline over the 1997-2004 time period. Declining employment is a sign that the occupation has no growth. However, turnover may result in some job opportunities.

Training Level Definitions

Occupational training and education classifications were developed by the Bureau of Labor Statistics to improve on prior classification systems that did not distinguish between occupations with comparable educational requirements. For example, neither carpenters nor laborers require formal education beyond high school, but the complexity of the work and the training time required results in carpenters being placed in the long-term on-the-job training category and laborers placed in the short-term on-the-job training category. Of course there is more than one way to qualify for a job. In this classification system, the education and training required reflects the manner in which most workers become proficient in that occupation and the preferences of most employers.

1. First professional degree. Occupations that require at least two years of full-time academic study beyond a bachelor's degree (for example, law, medicine, dentistry and clergy).

2. Doctoral degree. Occupations that require at least three years of full-time academic study beyond a bachelor's degree culminating in a doctoral degree.

3. Master's degree. Occupations that require the completion of a master's degree program which is usually one to two years beyond a bachelor's degree.

4. Bachelor's or higher and some work experience. Occupations that generally require work experience in an occupation requiring a bachelor's or higher degree. Most occupations in this category are managerial occupations that require work experience in a related non-managerial occupation.

5. Bachelor's degree. Occupations that require the completion of at least 4 but not more than 5 years of full-time academic study beyond high school resulting in a Bachelor's degree.

6. Associate degree. Occupations that require the completion of at least 2 years of full-time academic study beyond high school.

7. Post-secondary vocational education. Occupations that require completion of vocational school training.

8. Work experience. Occupations that require skills obtained through work experience in a related occupation.

9. Long-term on-the-job training. Occupations that require more than 12 months of on-the-job training or combined work experience and formal classroom instruction for workers to develop the skills needed for average job performance.

10. Moderate-term on-the-job training. Occupations in which workers can develop average job performance after 1 to 12 months of combined on-the-job experience and informal training.

11. Short-term on-the-job-training. Occupations in which workers can develop skills needed after a short demonstration or up to one month of on-the-job experience and instruction.

Industry Trends and Outlook

Between 1999 and 2006, nonfarm employment at firms located in Santa Cruz County is projected to grow by 10,100 jobs. This represents an average of about 1.5 percent a year.

Services will lead all industry divisions by adding 4,900 jobs, accounting for nearly half of the job gains in the county over the seven-year projection period. Business services—such as temporary employment agencies, guard services, computer and data processing services and janitorial services—will post a growth of 2,100 jobs. Social services will add 800 jobs. Hotels and amusements will also experience significant job gains. On the other hand, health services are expected to show a slight decline over the projection period.

Government employment will increase by 3,300 jobs between 1999 and 2006. Over 80 percent of these added public sector jobs will occur at the local level to provide for the needs of the growing population. The state government job addition will be concentrated in education. The federal government job count is projected to remain stable.

Retail trade will expand by 1,500 jobs over the seven-year period. Restaurants and bars are expected to lead the way within this industry division by adding 600 jobs. Food stores will increase by 200 jobs. General merchandise and vari-

ous other types of stores will also add to their payrolls.

Construction employment is projected to show a gain of 1,000 jobs between 1999 and 2006.

Finance, insurance and real estate will register an increase of 300 jobs. Banking will experience added employment related to population and business growth. Insurance and real estate will also gain jobs.

Wholesale trade will add 300 jobs during the projection period.

Transportation and public utilities employment is expected to remain unchanged.

Manufacturing will experience a net loss of 1,200 jobs between 1999 and 2006. The largest of the manufacturing decreases are projected in the electrical and electronic equipment industry (down 700 jobs) and in industrial machinery (down 300 jobs).

Mining employment is expected to edge downward during this period.

Table 1
Employment By Major Industry (1)
1999 - 2006 Annual Averages
SANTA CRUZ COUNTY

INDUSTRY	1999 (2)	PERCENT OF TOTAL	2006	PERCENT OF TOTAL
TOTAL NONFARM	94,100	100.0%	104,200	100.0%
MINING	100	0.1%	0	0.0%
CONSTRUCTION	4,600	4.9%	5,600	5.4%
MANUFACTURING	10,600	11.3%	9,400	9.0%
TRANSPORTATION & PUBLIC UTILITIES	3,000	3.2%	3,000	2.9%
TRADE	25,400	27.0%	27,200	26.1%
FINANCE, INSURANCE, & REAL ESTATE	3,700	3.9%	4,000	3.8%
SERVICES	28,000	29.8%	32,900	31.6%
GOVERNMENT	18,800	20.0%	22,100	21.2%

- (1) Employment and projections contained in these tables are considered estimates (see introduction for a full explanation of data limitations). Employment is reported by place of work and excludes self-employed persons, unpaid family workers, domestics, volunteers, and those involved in labor-management trade disputes. These data are based on 1987 Standard Industrial Classifications. Annual average industry detail may not add up to totals due to independent rounding. Government data include all civilian government employees regardless of the activities in which they are engaged.
- (2) March 2000 benchmark.

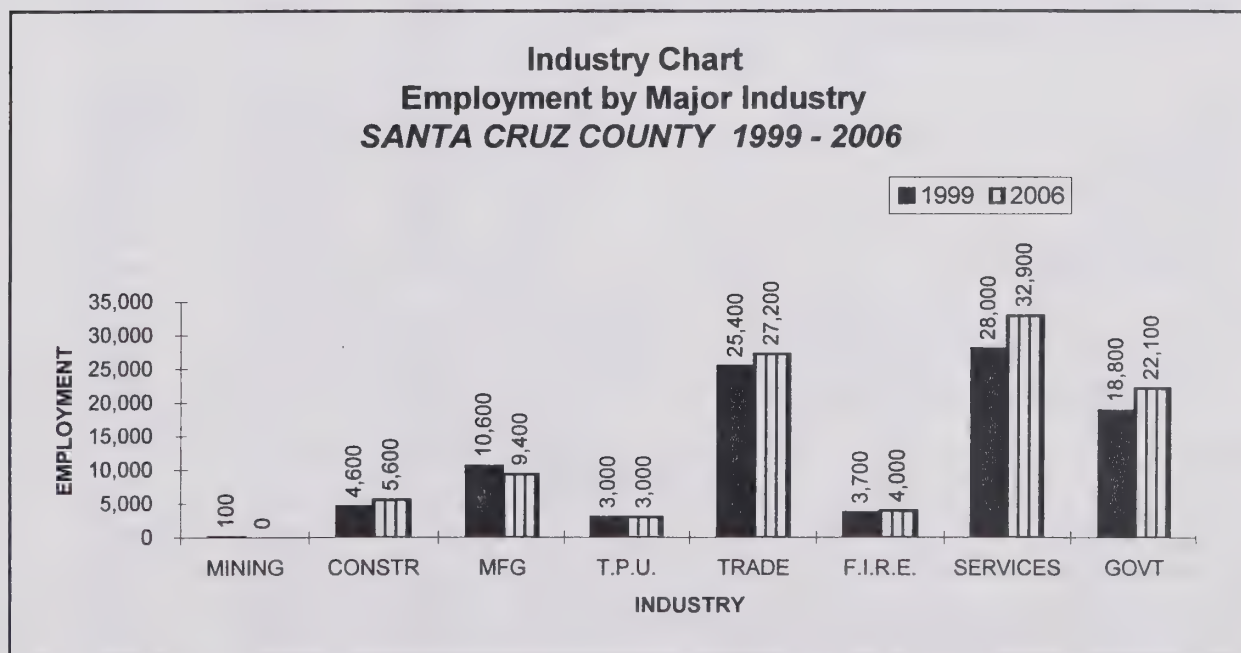


Table 2
Industry Employment Projections (1)
1999-2006
SANTA CRUZ COUNTY

INDUSTRY	SIC	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE
		1999 (2)	2006		
TOTAL NONFARM	10-99(ex88) 074,075,078	94,100	104,200	10,100	10.7
GOODS PRODUCING	10-39	15,200	15,000	-200	-1.3
MINING	10-14	100	0	-100	-100.0
CONSTRUCTION	15-17	4,600	5,600	1,000	21.7
MANUFACTURING	20-39	10,600	9,400	-1,200	-11.3
Durable Goods	24,25,32-39	6,100	5,200	-900	-14.8
Industrial Machinery	35	1,500	1,200	-300	-20.0
Electronic Equipment	36	2,100	1,400	-700	-33.3
Other Durable Goods		2,500	2,600	100	4.0
Nondurable Goods	20-23,26-31	4,500	4,200	-300	-6.7
Food & Kindred Products	20	2,500	2,400	-100	-4.0
Printing and Publishing	27	700	700	0	0.0
Other Nondurable Goods		1,300	1,100	-200	-15.4
SERVICE PRODUCING	40-99(ex88) 074,075,078	78,800	89,200	10,400	13.2
TRANSPORTATION AND PUBLIC UTILITIES	40-42,44-49	3,000	3,000	0	0.0
Transportation	40-42,44-47	2,100	2,100	0	0.0
Communications and Public Utilities	48,49	900	900	0	0.0
TRADE	50-59	25,400	27,200	1,800	7.1
Wholesale Trade	50,51	4,500	4,800	300	6.7
Retail Trade	52-59	20,900	22,400	1,500	7.2
General Merchandise	53	1,600	1,700	100	6.3
Food Stores	54	3,200	3,400	200	6.3
Eating and Drinking Places	58	7,600	8,200	600	7.9
Other Retail Trade		8,500	9,100	600	7.1
FINANCE, INSURANCE, & REAL ESTATE	60-65,67	3,700	4,000	300	8.1
Finance	60-62,67	1,500	1,700	200	13.3
Other Finance, Insurance, & Real Estate		2,100	2,300	200	9.5
SERVICES	70-89 074,075,078	28,000	32,900	4,900	17.5
Hotels and Other Lodging Places	70	1,300	1,600	300	23.1
Business Services	73	6,100	8,200	2,100	34.4
Amusement & Recreation Services	79	2,000	2,100	100	5.0
Health Services	80	6,400	6,300	-100	-1.6
Social Services & Member Organizations	83,86	5,200	6,000	800	15.4
Other Services		7,100	8,700	1,600	22.5

Table 2
Industry Employment Projections (1)
1999-2006
SANTA CRUZ COUNTY

INDUSTRY	SIC	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE
		1999 (2)	2006		
GOVERNMENT		18,800	22,100	3,300	17.6
Federal Government		600	600	0	0.0
State and Local Government		18,300	21,500	3,200	17.5
State Government		6,400	6,900	500	7.8
State Education		5,700	6,200	500	8.8
Other State Government		600	700	100	16.7
Local Government		11,900	14,600	2,700	22.7

- (1) Employment and projections contained in these tables are considered estimates (see introduction for a full explanation of data limitations). Employment is reported by place of work and excludes self-employed persons, unpaid family workers, domestics, volunteers and those involved in labor-management trade disputes. These data are based on 1987 Standard Industrial Classifications. Annual average industry detail may not add up to totals due to independent rounding. Government data include all civilian government employees regardless of the activities in which they are engaged.
- (2) March 2000 benchmark.

Table 3
Employment by Major Occupational Group
1999 - 2006 Annual Averages
SANTA CRUZ COUNTY

OCCUPATIONAL GROUP	1999	PERCENT OF TOTAL	2006	PERCENT OF TOTAL	ABSOLUTE CHANGE	PERCENT CHANGE
TOTAL, ALL OCCUPATIONS (1)	94,100	100.0%	104,200	100.0%	10,100	10.7%
MANAGERS AND ADMIN OCCUPATIONS	6,460	6.9%	7,060	6.8%	600	9.3%
PROFESSIONAL, PARAPROF, TECHNICAL	22,220	23.6%	25,770	24.7%	3,550	16.0%
SALES AND RELATED OCCUPATIONS	12,440	13.2%	13,660	13.1%	1,220	9.8%
CLERICAL, ADMINISTRATIVE SUPPORT	15,600	16.6%	16,880	16.2%	1,280	8.2%
SERVICE OCCUPATIONS	16,490	17.5%	18,230	17.5%	1,740	10.6%
AGRICULTURAL, FORESTRY, FISHING	1,900	2.0%	2,170	2.1%	270	14.2%
PROD, CONST, OPER, MAT HANDLING	18,900	20.1%	20,340	19.5%	1,440	7.6%

(1) Total is based on the March 2000 benchmark.

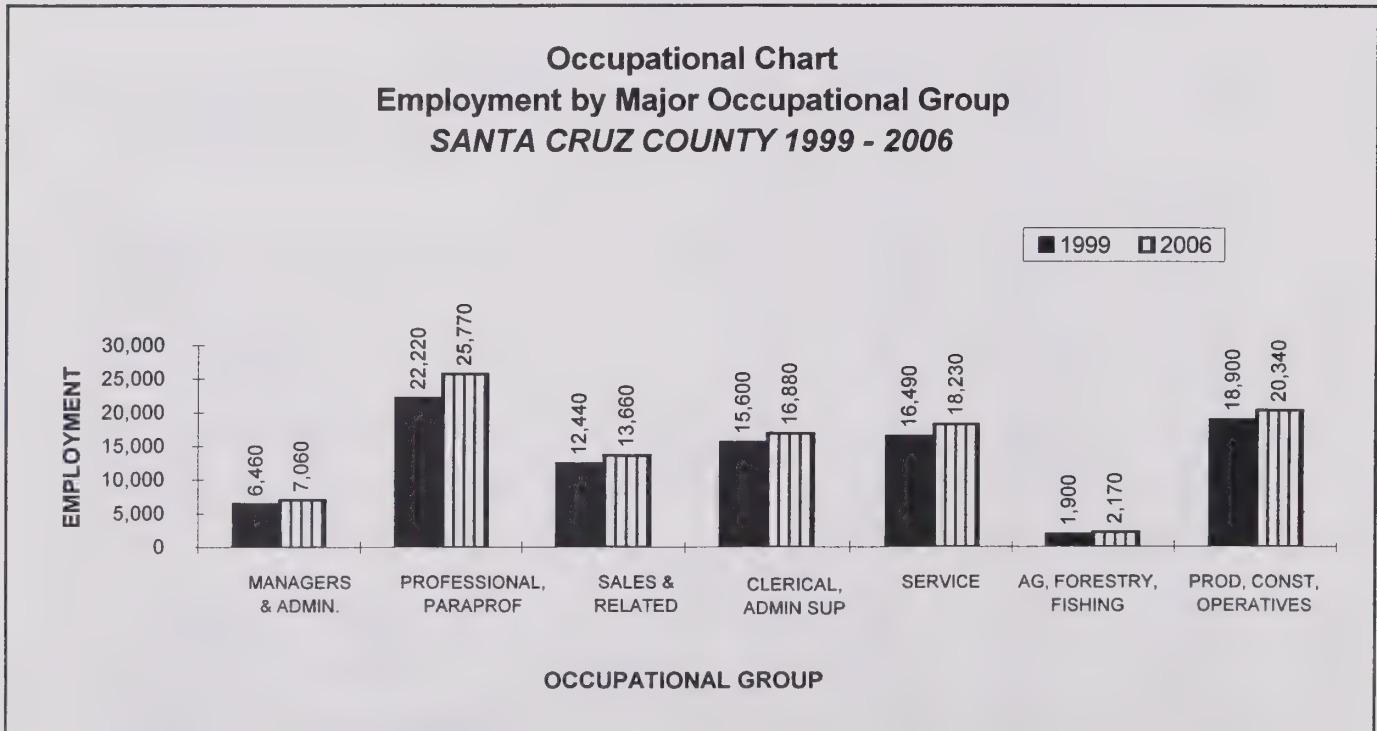


Table 4
Occupations With The Greatest Absolute Job Growth (1)
1999 - 2006
SANTA CRUZ COUNTY

CA OES CODE	OCCUPATION	ANNUAL AVERAGES		NUMBER OF NEW JOBS	PERCENT CHANGE	BLS TRAINING LEVEL	EDUCATION/EXPERIENCE
		1999(2)	2006				
49011	SALESPERSONS, RETAIL	4,140	4,480	340	8.2	11	SHORT-TERM ON-THE-JOB TRAINING
49023	CASHIERS	2,590	2,900	310	12.0	11	SHORT-TERM ON-THE-JOB TRAINING
55347	GENERAL OFFICE CLERKS	2,520	2,810	290	11.5	11	SHORT-TERM ON-THE-JOB TRAINING
31308	TEACHERS--SECONDARY SCHOOL	1,040	1,320	280	26.9	05	BACHELOR'S DEGREE
19005	GENERAL MANAGERS, TOP EXECUTIVES	2,610	2,880	270	10.3	04	WORK EXP., PLUS BACHELOR'S OR HIGHER
22127	COMPUTER ENGINEERS	450	710	260	57.8	05	BACHELOR'S DEGREE
31305	TEACHERS--ELEMENTARY SCHOOL	1,370	1,630	260	19.0	05	BACHELOR'S DEGREE
53905	TEACHER AIDES & EDUC ASSTS, CLERICAL	730	930	200	27.4	11	SHORT-TERM ON-THE-JOB TRAINING
25104	COMPUTER SUPPORT SPECIALISTS	430	620	190	44.2	05	BACHELOR'S DEGREE
79041	LABORERS, LANDSCAPING/GROUNDSKEEPING	1,030	1,220	190	18.4	11	SHORT-TERM ON-THE-JOB TRAINING
63047	GUARDS AND WATCH GUARDS	740	920	180	24.3	11	SHORT-TERM ON-THE-JOB TRAINING
87102	CARPENTERS	870	1,040	170	19.5	09	LONG-TERM ON-THE-JOB TRAINING
31521	TEACHER AIDES, PARAPROFESSIONAL	500	660	160	32.0	06	ASSOCIATE DEGREE
65008	WAITERS AND WAITRESSES	2,070	2,230	160	7.7	11	SHORT-TERM ON-THE-JOB TRAINING
31311	TEACHERS--SPECIAL EDUCATION	410	550	140	34.1	05	BACHELOR'S DEGREE
49017	COUNTER AND RENTAL CLERKS	490	620	130	26.5	11	SHORT-TERM ON-THE-JOB TRAINING
67005	JANITORS, CLEANERS--EXCEPT MAIDS	1,200	1,330	130	10.8	11	SHORT-TERM ON-THE-JOB TRAINING
63014	POLICE PATROL OFFICERS	310	430	120	38.7	09	LONG-TERM ON-THE-JOB TRAINING
68038	CHILD CARE WORKERS	570	690	120	21.1	11	SHORT-TERM ON-THE-JOB TRAINING
25102	SYSTEMS ANALYSTS--ELEC DATA PROCESSING	290	400	110	37.9	05	BACHELOR'S DEGREE
27311	RECREATION WORKERS	510	610	100	19.6	05	BACHELOR'S DEGREE
67002	MAIDS AND HOUSEKEEPING CLEANERS	740	840	100	13.5	11	SHORT-TERM ON-THE-JOB TRAINING
97105	TRUCK DRIVERS, LIGHT	980	1,080	100	10.2	11	SHORT-TERM ON-THE-JOB TRAINING
55108	SECRETARIES, GENERAL	1,470	1,560	90	6.1	07	POST-SECONDARY VOCATIONAL EDUCATION
65026	COOKS--RESTAURANT	810	900	90	11.1	09	LONG-TERM ON-THE-JOB TRAINING
55305	RECEPTIONISTS, INFORMATION CLERKS	1,160	1,240	80	6.9	11	SHORT-TERM ON-THE-JOB TRAINING
65041	COMBINED FOOD PREP AND SERVICE	1,380	1,460	80	5.8	11	SHORT-TERM ON-THE-JOB TRAINING
85302	AUTOMOTIVE MECHANICS	500	580	80	16.0	09	LONG-TERM ON-THE-JOB TRAINING
95002	WATER TREATMENT PLANT OPERATORS	290	370	80	27.6	09	LONG-TERM ON-THE-JOB TRAINING
97102	TRUCK DRIVERS, HEAVY	940	1,020	80	8.5	11	SHORT-TERM ON-THE-JOB TRAINING

Table 4
Occupations With The Greatest Absolute Job Growth (1)
1999 - 2006
SANTA CRUZ COUNTY

CA OES CODE	OCCUPATION	ANNUAL AVERAGES		NUMBER OF NEW JOBS	PERCENT CHANGE	BLS TRAINING LEVEL	EDUCATION/EXPERIENCE
		1999(2)	2006				
27307	RESIDENTIAL COUNSELORS	410	480	70	17.1	05	BACHELOR'S DEGREE
27308	HUMAN SERVICES WORKERS	190	260	70	36.8	10	MODERATE-TERM ON-THE-JOB TRAINING
28305	PARALEGAL PERSONNEL	140	210	70	50.0	06	ASSOCIATE DEGREE
32502	REGISTERED NURSES	1,250	1,320	70	5.6	06	ASSOCIATE DEGREE
85132	MAINT REPAIRERS, GENERAL UTILITY	860	930	70	8.1	09	LONG-TERM ON-THE-JOB TRAINING
15005	EDUCATION ADMINISTRATORS	440	500	60	13.6	04	WORK EXP., PLUS BACHELOR'S OR HIGHER
31303	TEACHERS, PRESCHOOL	330	390	60	18.2	05	BACHELOR'S DEGREE
31321	INSTRUCTORS AND COACHES--SPORTS	550	610	60	10.9	10	MODERATE-TERM ON-THE-JOB TRAINING
58023	STOCK CLERKS--STOCKROOM, WAREHOUSE	910	970	60	6.6	11	SHORT-TERM ON-THE-JOB TRAINING
65038	FOOD PREPARATION WORKERS	1,110	1,170	60	5.4	11	SHORT-TERM ON-THE-JOB TRAINING
87502	PLUMBERS, PIPEFITTERS, STEAMFITTER	290	350	60	20.7	09	LONG-TERM ON-THE-JOB TRAINING
13017	ENGINEER, MATH, AND NAT SCI MGRS	370	420	50	13.5	04	WORK EXP., PLUS BACHELOR'S OR HIGHER
15017	CONSTRUCTION MANAGERS	200	250	50	25.0	05	BACHELOR'S DEGREE
31317	INSTRUCTORS--NON-VOC EDUCATION	270	320	50	18.5	08	WORK EXPERIENCE
63008	FIRE FIGHTERS	280	330	50	17.9	09	LONG-TERM ON-THE-JOB TRAINING
97108	BUS DRIVERS	290	340	50	17.2	10	MODERATE-TERM ON-THE-JOB TRAINING
21114	ACCOUNTANTS AND AUDITORS	410	450	40	9.8	05	BACHELOR'S DEGREE
31514	VOCATIONAL & EDUCATIONAL COUNSELOR	140	180	40	28.6	03	MASTER'S DEGREE
53508	BILL AND ACCOUNT COLLECTORS	110	150	40	36.4	11	SHORT-TERM ON-THE-JOB TRAINING
53808	HOTEL DESK CLERKS	160	200	40	25.0	11	SHORT-TERM ON-THE-JOB TRAINING
TOTAL OF THESE OCCUPATIONS		41,850	47,860	6,010	14.4		

(1) Excludes not elsewhere classified (NEC) categories.

(2) March 2000 Benchmark

Table 5
Occupations With The Fastest Job Growth (1)
1999 - 2006
SANTA CRUZ COUNTY

CA OES CODE	OCCUPATION	ANNUAL AVERAGES		NUMBER OF NEW JOBS	PERCENT CHANGE	BLS TRAINING LEVEL	EDUCATION/EXPERIENCE
		1999(2)	2006				
22127	COMPUTER ENGINEERS	450	710	260	57.8	05	BACHELOR'S DEGREE
28305	PARALEGAL PERSONNEL	140	210	70	50.0	06	ASSOCIATE DEGREE
25104	COMPUTER SUPPORT SPECIALISTS	430	620	190	44.2	05	BACHELOR'S DEGREE
63014	POLICE PATROL OFFICERS	310	430	120	38.7	09	LONG-TERM ON-THE-JOB TRAINING
25102	SYSTEMS ANALYSTS--ELEC DATA PROCESSING	290	400	110	37.9	05	BACHELOR'S DEGREE
27308	HUMAN SERVICES WORKERS	190	260	70	36.8	10	MODERATE-TERM ON-THE-JOB TRAINING
53508	BILL AND ACCOUNT COLLECTORS	110	150	40	36.4	11	SHORT-TERM ON-THE-JOB TRAINING
67008	PEST CONTROLLERS AND ASSISTANTS	110	150	40	36.4	10	MODERATE-TERM ON-THE-JOB TRAINING
31311	TEACHERS--SPECIAL EDUCATION	410	550	140	34.1	05	BACHELOR'S DEGREE
56005	DUPLICATING MACHINE OPERATORS	90	120	30	33.3	11	SHORT-TERM ON-THE-JOB TRAINING
89132	SHEET METAL WORKERS	90	120	30	33.3	10	MODERATE-TERM ON-THE-JOB TRAINING
31521	TEACHER AIDES, PARAPROFESSIONAL	500	660	160	32.0	06	ASSOCIATE DEGREE
31514	VOCATIONAL & EDUCATIONAL COUNSELOR	140	180	40	28.6	03	MASTER'S DEGREE
95002	WATER TREATMENT PLANT OPERATORS	290	370	80	27.6	09	LONG-TERM ON-THE-JOB TRAINING
53905	TEACHER AIDES & EDUC ASSTS, CLERICAL	730	930	200	27.4	11	SHORT-TERM ON-THE-JOB TRAINING
31308	TEACHERS--SECONDARY SCHOOL	1,040	1,320	280	26.9	05	BACHELOR'S DEGREE
49017	COUNTER AND RENTAL CLERKS	490	620	130	26.5	11	SHORT-TERM ON-THE-JOB TRAINING
15017	CONSTRUCTION MANAGERS	200	250	50	25.0	05	BACHELOR'S DEGREE
53808	HOTEL DESK CLERKS	160	200	40	25.0	11	SHORT-TERM ON-THE-JOB TRAINING
79017	ANIMAL CARETAKERS--EXCEPT FARM	120	150	30	25.0	11	SHORT-TERM ON-THE-JOB TRAINING
58014	METER READERS--UTILITIES	80	100	20	25.0	11	SHORT-TERM ON-THE-JOB TRAINING
61005	POLICE AND DETECTIVE SUPERVISORS	80	100	20	25.0	08	WORK EXPERIENCE
68021	USHERS, LOBBY ATTENDANTS	80	100	20	25.0	11	SHORT-TERM ON-THE-JOB TRAINING
85902	HEATING, AC, REFRIG MECHANICS	80	100	20	25.0	09	LONG-TERM ON-THE-JOB TRAINING
87605	FLOOR LAYERS--EX CARPET, WOOD, TILES	80	100	20	25.0	10	MODERATE-TERM ON-THE-JOB TRAINING
87708	PAVING, TAMPING-EQUIP OPERATORS	80	100	20	25.0	10	MODERATE-TERM ON-THE-JOB TRAINING
92726	LNDRY, DRYCLEAN MACH OPS--EX PRESS	80	100	20	25.0	10	MODERATE-TERM ON-THE-JOB TRAINING
63047	GUARDS AND WATCH GUARDS	740	920	180	24.3	11	SHORT-TERM ON-THE-JOB TRAINING
87711	HIGHWAY MAINTENANCE WORKERS	130	160	30	23.1	11	SHORT-TERM ON-THE-JOB TRAINING
68005	HAIRDRESSERS, HAIRSTYLISTS	180	220	40	22.2	07	POST-SECONDARY VOCATIONAL EDUCATION

Table 5
Occupations With The Fastest Job Growth (1)
1999 - 2006
SANTA CRUZ COUNTY

CA OES CODE	OCCUPATION	ANNUAL AVERAGES		NUMBER OF NEW JOBS	PERCENT CHANGE	BLS TRAINING LEVEL	EDUCATION/EXPERIENCE
		1999(2)	2006				
31117	GRADUATE ASSISTANTS, TEACHING	90	110	20	22.2	03	MASTER'S DEGREE
61002	FIRE FIGHTING & PREVENTION SUPERVISORS	90	110	20	22.2	08	WORK EXPERIENCE
79002	FOREST, CONSERVATION WORKERS	90	110	20	22.2	11	SHORT-TERM ON-THE-JOB TRAINING
87311	CONCRETE AND TERRAZZO FINISHERS	90	110	20	22.2	09	LONG-TERM ON-THE-JOB TRAINING
27502	CLERGY	140	170	30	21.4	01	FIRST PROFESSIONAL DEGREE
53902	LIBRARY ASSTS & BOOKMOBILE DRIVERS	140	170	30	21.4	11	SHORT-TERM ON-THE-JOB TRAINING
81005	FIRST-LINE SUP/MGR-CONSTRUCTION	140	170	30	21.4	08	WORK EXPERIENCE
98312	HELPERS--CARPENTERS AND RELATED	140	170	30	21.4	11	SHORT-TERM ON-THE-JOB TRAINING
68038	CHILD CARE WORKERS	570	690	120	21.1	11	SHORT-TERM ON-THE-JOB TRAINING
87202	ELECTRICIANS	190	230	40	21.1	09	LONG-TERM ON-THE-JOB TRAINING
87502	PLUMBERS, PIPEFITTERS, STEAMFITTER	290	350	60	20.7	09	LONG-TERM ON-THE-JOB TRAINING
28108	LAWYERS	150	180	30	20.0	01	FIRST PROFESSIONAL DEGREE
34008	PUB REL SPECS, PUBLICITY WRITERS	150	180	30	20.0	05	BACHELOR'S DEGREE
87808	ROOFERS	150	180	30	20.0	10	MODERATE-TERM ON-THE-JOB TRAINING
21108	LOAN OFFICERS AND COUNSELORS	100	120	20	20.0	05	BACHELOR'S DEGREE
21902	COST ESTIMATORS	100	120	20	20.0	08	WORK EXPERIENCE
21911	COMPL, ENFORCE INSPECT-EX CONSTRUC	100	120	20	20.0	08	WORK EXPERIENCE
24105	CHEMISTS, EXCEPT BIOCHEMISTS	100	120	20	20.0	05	BACHELOR'S DEGREE
25108	COMPUTER PROGRAMMER AIDES	100	120	20	20.0	05	BACHELOR'S DEGREE
32911	MEDICAL RECORDS TECHNICIANS	100	120	20	20.0	06	ASSOCIATE DEGREE
TOTAL OF THESE OCCUPATIONS		10,920	14,050	3,130	28.7		

(1) Excludes not elsewhere classified (NEC) categories and occupations of less than 100 in 2006.

(2) March 2000 Benchmark

Table 6
Occupational Employment Projections (1)
1999 - 2006
SANTA CRUZ COUNTY

LINE #	CA OES CODE	OCCUPATION	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS	BLS TRAINING LEVEL	EDUCATION/EXPERIENCE
			1999(2)	2006					
1	00000	TOTAL, ALL OCCUPATIONS	94,100	104,200	10,100	10.7	17,370		
2	10000	MGRS AND ADMIN OCCUPATIONS	6,460	7,060	600	9.3	850		
3	13002	FINANCIAL MANAGERS	410	430	20	4.9	50	04	WORK EXP., PLUS BACHELOR'S OR HIGHER
4	13005	PERS, TRAINING, LABOR-RELATIONS MANAGERS	170	190	20	11.8	30	04	WORK EXP., PLUS BACHELOR'S OR HIGHER
5	13008	PURCHASING MANAGERS	130	130	0	0.0	20	04	WORK EXP., PLUS BACHELOR'S OR HIGHER
6	13011	MKTING, ADV, PUB-REL MANAGERS	410	430	20	4.9	40	04	WORK EXP., PLUS BACHELOR'S OR HIGHER
7	13014	ADMINISTRATIVE SERVICES MANAGERS	260	290	30	11.5	30	04	WORK EXP., PLUS BACHELOR'S OR HIGHER
8	13017	ENGINEER, MATH, AND NAT SCI MANAGERS	370	420	50	13.5	50	04	WORK EXP., PLUS BACHELOR'S OR HIGHER
10	15005	EDUCATION ADMINISTRATORS	440	500	60	13.6	80	04	WORK EXP., PLUS BACHELOR'S OR HIGHER
11	15008	MEDICINE, HEALTH SERVICES MGRS	120	130	10	8.3	20	04	WORK EXP., PLUS BACHELOR'S OR HIGHER
12	15011	PROPERTY AND REAL ESTATE MANAGERS	120	130	10	8.3	10	05	BACHELOR'S DEGREE
13	15014	INDUSTRIAL PRODUCTION MANAGERS	140	120	-20	-14.3	20	05	BACHELOR'S DEGREE
14	15017	CONSTRUCTION MANAGERS	200	250	50	25.0	30	05	BACHELOR'S DEGREE
16	15023	COMM, TRANS, UTIL OPER MANAGERS	110	110	0	0.0	10	04	WORK EXP., PLUS BACHELOR'S OR HIGHER
17	15026	FOOD SERVICE AND LODGING MANAGERS	200	220	20	10.0	30	08	WORK EXPERIENCE
20	19002	PUB ADMIN CHIEF EXECS, LEGISLATORS	40	40	0	0.0	10	04	WORK EXP., PLUS BACHELOR'S OR HIGHER
21	19005	GENERAL MANAGERS, TOP EXECUTIVES	2,610	2,880	270	10.3	330	04	WORK EXP., PLUS BACHELOR'S OR HIGHER
22	19999	MANAGERS AND ADMINISTRATORS, NEC	730	790	60	8.2	90	04	WORK EXP., PLUS BACHELOR'S OR HIGHER
23	20000	PROFESSIONAL, PARAPROF, TECHNICAL	22,220	25,770	3,550	16.0	3,310		
24	21000	MANAGEMENT SUPPORT OCCUPATIONS	2,080	2,300	220	10.6	310		

Table 6
Occupational Employment Projections (1)
1999 - 2006
SANTA CRUZ COUNTY

LINE #	CA OES CODE	OCCUPATION	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS	BLS TRAINING LEVEL	EDUCATION/EXPERIENCE
			1999(2)	2006					
25	21100	ACCOUNTANTS, AUDIT, FINANCE SPECIALISTS	760	850	90	11.8	110		
28	21108	LOAN OFFICERS AND COUNSELORS	100	120	20	20.0	20	05	BACHELOR'S DEGREE
29	21111	TAX PREPARERS	30	40	10	33.3	10	11	SHORT-TERM ON-THE-JOB TRAINING
30	21114	ACCOUNTANTS AND AUDITORS	410	450	40	9.8	50	05	BACHELOR'S DEGREE
31	21117	BUDGET ANALYSTS	90	90	0	0.0	10	05	BACHELOR'S DEGREE
32	21199	FINANCIAL SPECIALISTS, NEC	130	150	20	15.4	20	05	BACHELOR'S DEGREE
33	21300	PURCHASING AGENTS AND BUYERS	300	310	10	3.3	60		
34	21302	WHLE AND RET BUYERS--EX FARM PRODS	100	100	0	0.0	20	05	BACHELOR'S DEGREE
35	21305	PURCH AGTS AND BUYERS--FARM PRODS	60	60	0	0.0	10	08	WORK EXPERIENCE
36	21308	PURCH AGTS--EX WHLE,RET,FARM PRODS	140	150	10	7.1	30	05	BACHELOR'S DEGREE
37	21500	PERS, TRAINING, LAB-REL SPECS	200	220	20	10.0	40		
40	21508	EMPL INTERVIEWERS--PRIV OR PUB	30	30	0	0.0	10	05	BACHELOR'S DEGREE
41	21511	PERS, TRAINING, LAB-REL SPECS, NEC	170	190	20	11.8	30	05	BACHELOR'S DEGREE
42	21900	OTHER MANAGEMENT SUPPORT WORKERS	820	920	100	12.2	100		
43	21902	COST ESTIMATORS	100	120	20	20.0	10	08	WORK EXPERIENCE
45	21908	CONST AND BUILDING INSPECTORS	60	80	20	33.3	10	08	WORK EXPERIENCE
46	21911	COMPL, ENFORCE INSPECT--EX CONST	100	120	20	20.0	10	08	WORK EXPERIENCE
49	21921	CLAIMS EXAMINERS--INSURANCE	30	30	0	0.0	0	05	BACHELOR'S DEGREE
50	21999	MANAGEMENT SUPPORT WORKERS, NEC	530	570	40	7.5	70	05	BACHELOR'S DEGREE
51	22000	ENGINEERS, ARCHITECTS, SURVEYORS	2,310	2,590	280	12.1	320		
52	22100	ENGINEERS	1,610	1,880	270	16.8	220		
59	22121	CIVIL ENGINEERS--INCLUDING TRAFFIC	170	200	30	17.6	30	05	BACHELOR'S DEGREE

Table 6
Occupational Employment Projections (1)
1999 - 2006
SANTA CRUZ COUNTY

LINE #	CA OES CODE	OCCUPATION	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS	BLS TRAINING LEVEL	EDUCATION/EXPERIENCE
			1999(2)	2006					
61	22126	ELECT AND ELECTRONIC ENGINEERS	560	470	-90	-16.1	80	05	BACHELOR'S DEGREE
62	22127	COMPUTER ENGINEERS	450	710	260	57.8	20	05	BACHELOR'S DEGREE
65	22135	MECHANICAL ENGINEERS	50	50	0	0.0	10	05	BACHELOR'S DEGREE
67	22199	ENGINEERS, NEC	380	450	70	18.4	80	05	BACHELOR'S DEGREE
68	22300	ARCHITECTS AND SURVEYORS	30	30	0	0.0	0		
71	22308	LANDSCAPE ARCHITECTS	30	30	0	0.0	0	05	BACHELOR'S DEGREE
73	22500	ENGINEERING, RELATED TECHNICIANS	670	680	10	1.5	100		
74	22502	CIVIL ENGINEERING TECHNICIANS	60	70	10	16.7	10	06	ASSOCIATE DEGREE
75	22505	ELECT, ELECTRONIC ENGINEERING TECHNICIANS	300	290	-10	-3.3	40	06	ASSOCIATE DEGREE
78	22514	DRAFTERS	130	130	0	0.0	20	07	POST-SECONDARY VOCATIONAL EDUCATION
80	22521	SURVEYING AND MAPPING TECHNICIANS	50	60	10	20.0	10	07	POST-SECONDARY VOCATIONAL EDUCATION
81	22599	ENGINEERING, RELATED TECHS, NEC	130	130	0	0.0	20	06	ASSOCIATE DEGREE
82	24000	NAT SCIENTISTS AND RELATED WORKERS	480	600	120	25.0	100		
83	24100	PHYSICAL SCIENTISTS	150	180	30	20.0	30		
85	24105	CHEMISTS, EXCEPT BIOCHEMISTS	100	120	20	20.0	20	05	BACHELOR'S DEGREE
87	24111	GEOLOGIST, GEOPHYS, OCEANOGRAPHERS	50	60	10	20.0	10	05	BACHELOR'S DEGREE
89	24300	LIFE SCIENTISTS	110	150	40	36.4	30		
91	24305	AGRICULTURAL AND FOOD SCIENTISTS	30	40	10	33.3	10	05	BACHELOR'S DEGREE
92	24308	BIOLOGICAL SCIENTISTS	50	70	20	40.0	10	02	DOCTORAL DEGREE
93	24311	MEDICAL SCIENTISTS	30	40	10	33.3	10	02	DOCTORAL DEGREE
95	24500	PHYSICAL, LIFE SCIENCE TECHNICIANS	220	270	50	22.7	40		
96	24502	BIOLOGICAL, AGRI, FOOD TECHNICIANS	70	90	20	28.6	10	06	ASSOCIATE DEGREE

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Occupational Employment Projections (1)
1999 - 2006
SANTA CRUZ COUNTY

LINE #	CA OES CODE	OCCUPATION	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS	BLS TRAINING LEVEL	EDUCATION/EXPERIENCE
			1999(2)	2006					
97	24505	CHEM TECHS--EXCEPT HEALTH	40	50	10	25.0	10	06	ASSOCIATE DEGREE
100	24599	PHYSICAL, LIFE SCIENCE TECHNICIANS, NEC	110	130	20	18.2	20	06	ASSOCIATE DEGREE
101	25000	COMPUTER, MATH, OPS RESRCH, RELATED	1,100	1,460	360	32.7	100		
102	25100	COMPUTER SCIENTISTS AND RELATED	1,100	1,460	360	32.7	100		
103	25102	SYSTEMS ANALYSTS--ELEC DATA PROCESSING	290	400	110	37.9	10	05	BACHELOR'S DEGREE
104	25103	DATA BASE ADMINISTRATORS	60	70	10	16.7	10	05	BACHELOR'S DEGREE
105	25104	COMPUTER SUPPORT SPECIALISTS	430	620	190	44.2	20	05	BACHELOR'S DEGREE
106	25105	COMPUTER PROGRAMMERS	190	200	10	5.3	40	05	BACHELOR'S DEGREE
107	25108	COMPUTER PROGRAMMER AIDES	100	120	20	20.0	20	05	BACHELOR'S DEGREE
109	25199	COMPUTER SCIENTISTS, REL WRKRS, NEC	30	50	20	66.7	0	05	BACHELOR'S DEGREE
118	27000	SOCIAL SCI, RECREATION, RELIGIOUS	1,830	2,210	380	20.8	300		
119	27100	SOCIAL SCI--INCL URBAN, REG PLANNERS	130	150	20	15.4	20		
120	27102	ECONOMISTS--INCL MKT RESEARCH ANALYST	40	50	10	25.0	10	05	BACHELOR'S DEGREE
121	27105	URBAN AND REGIONAL PLANNERS	30	30	0	0.0	0	03	MASTER'S DEGREE
122	27108	PSYCHOLOGISTS	60	70	10	16.7	10	03	MASTER'S DEGREE
124	27300	OTH SOCIAL SCIENCE RELATED WORKERS	1,440	1,730	290	20.1	240		
125	27302	SOCIAL WORKERS--MED, PSYCHIATRIC	150	170	20	13.3	10	03	MASTER'S DEGREE
126	27305	SOCIAL WKRS--EX MED, PSYCHIATRIC	180	210	30	16.7	20	05	BACHELOR'S DEGREE
127	27307	RESIDENTIAL COUNSELORS	410	480	70	17.1	70	05	BACHELOR'S DEGREE
128	27308	HUMAN SERVICES WORKERS	190	260	70	36.8	40	10	MODERATE-TERM ON-THE-JOB TRAINING
129	27311	RECREATION WORKERS	510	610	100	19.6	100	05	BACHELOR'S DEGREE

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Occupational Employment Projections (1)
1999 - 2006
SANTA CRUZ COUNTY

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			1999(2)	2006					
130	27500	RELIGIOUS WORKERS	260	330	70	26.9	40		
131	27502	CLERGY	140	170	30	21.4	20	01	FIRST PROFESSIONAL DEGREE
132	27505	DIRECTORS--RELIG ACTIVITIES, EDUC	40	60	20	50.0	10	05	BACHELOR'S DEGREE
133	27599	RELIGIOUS WORKERS, NEC	80	100	20	25.0	10	05	BACHELOR'S DEGREE
134	28000	LAW AND RELATED OCCUPATIONS	320	420	100	31.3	20		
135	28100	LAWYERS AND RELATED WORKERS	180	210	30	16.7	10		
137	28105	ADJUDICATORS, JUDICIAL REVIEWERS	30	30	0	0.0	0	04	WORK EXP., PLUS BACHELOR'S OR HIGHER
138	28108	LAWYERS	150	180	30	20.0	10	01	FIRST PROFESSIONAL DEGREE
139	28300	LEGAL ASSTS, TECHS, EX CLERICAL	140	210	70	50.0	10		
141	28305	PARALEGAL PERSONNEL	140	210	70	50.0	10	06	ASSOCIATE DEGREE
145	31000	TEACHERS, EDUCATORS, LIBRARIANS	7,600	9,030	1,430	18.8	1,120		
146	31100	POSTSECONDARY TEACHERS	960	1,140	180	18.8	210		
149	31117	GRADUATE ASSISTANTS, TEACHING	90	110	20	22.2	20	03	MASTER'S DEGREE
155	31211	HEALTH DIAGNOSTICS TEACHERS, POSTSEC	30	40	10	33.3	10	02	DOCTORAL DEGREE
158	31214	ENGLISH LANG & LIT TEACHERS, POSTSEC	40	40	0	0.0	10	02	DOCTORAL DEGREE
163	31224	MATHEMATICAL SCIENCES TEACHERS, POSTSEC	40	50	10	25.0	10	02	DOCTORAL DEGREE
183	31299	POSTSECONDARY TEACHERS, NEC	760	900	140	18.4	160	02	DOCTORAL DEGREE
184	31300	OTHER TEACHERS AND INSTRUCTORS	5,750	6,760	1,010	17.6	790		
185	31303	TEACHERS, PRESCHOOL	330	390	60	18.2	50	05	BACHELOR'S DEGREE
186	31304	TEACHERS, KINDERGARTEN	170	200	30	17.6	30	05	BACHELOR'S DEGREE
187	31305	TEACHERS--ELEMENTARY SCHOOL	1,370	1,630	260	19.0	240	05	BACHELOR'S DEGREE

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Occupational Employment Projections (1)
1999 - 2006
SANTA CRUZ COUNTY

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			1999(2)	2006					
188	31308	TEACHERS--SECONDARY SCHOOL	1,040	1,320	280	26.9	260	05	BACHELOR'S DEGREE
189	31311	TEACHERS--SPECIAL EDUCATION	410	550	140	34.1	30	05	BACHELOR'S DEGREE
190	31314	TEACHERS--VOC ED AND TRAINING	260	290	30	11.5	20	08	WORK EXPERIENCE
191	31317	INSTRUCTORS--NON-VOC EDUCATION	270	320	50	18.5	20	08	WORK EXPERIENCE
192	31321	INSTRUCTORS AND COACHES--SPORTS	550	610	60	10.9	40	10	MODERATE-TERM ON-THE-JOB TRAINING
194	31399	TEACHERS AND INSTRUCTORS, NEC	1,350	1,450	100	7.4	100	03	MASTER'S DEGREE
195	31500	LIBRARIANS, ARCHIVISTS AND RELATED	890	1,130	240	27.0	120		
196	31502	LIBRARIANS--PROFESSIONAL	140	150	10	7.1	30	03	MASTER'S DEGREE
197	31505	TECHNICAL ASSISTANTS--LIBRARY	60	80	20	33.3	10	11	SHORT-TERM ON-THE-JOB TRAINING
200	31514	VOCATIONAL & EDUCATIONAL COUNSELOR	140	180	40	28.6	30	03	MASTER'S DEGREE
201	31517	INSTRUCTIONAL COORDINATORS	50	60	10	20.0	0	05	BACHELOR'S DEGREE
202	31521	TEACHER AIDES, PARAPROFESSIONAL	500	660	160	32.0	50	06	ASSOCIATE DEGREE
203	32000	HEALTH PRACTITIONERS, TECHS, RELATED	4,120	4,400	280	6.8	610		
204	32100	HEALTH DIAGNOSING, TREATING	310	320	10	3.2	40		
205	32102	PHYSICIANS AND SURGEONS	110	110	0	0.0	10	01	FIRST PROFESSIONAL DEGREE
206	32105	DENTISTS	90	90	0	0.0	10	01	FIRST PROFESSIONAL DEGREE
209	32113	CHIROPRACTORS	50	50	0	0.0	10	01	FIRST PROFESSIONAL DEGREE
210	32114	VETS AND VETERINARY INSPECTORS	60	70	10	16.7	10	01	FIRST PROFESSIONAL DEGREE
212	32300	THERAPISTS	220	260	40	18.2	40		
213	32302	RESPIRATORY CARE PRACTITIONERS	60	70	10	16.7	10	06	ASSOCIATE DEGREE
214	32305	OCCUPATIONAL THERAPISTS	50	60	10	20.0	10	05	BACHELOR'S DEGREE
215	32308	PHYSICAL THERAPISTS	60	60	0	0.0	10	05	BACHELOR'S DEGREE
217	32314	SPEECH PATHOLOGISTS, AUDIOLOGISTS	50	70	20	40.0	10	03	MASTER'S DEGREE

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Occupational Employment Projections (1)
1999 - 2006
SANTA CRUZ COUNTY

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			1999(2)	2006					
220	32500	HEALTH CARE MAINTENANCE, TREATING	2,010	2,070	60	3.0	270		
221	32502	REGISTERED NURSES	1,250	1,320	70	5.6	150	06	ASSOCIATE DEGREE
222	32505	LICENSED VOCATIONAL NURSES	400	390	-10	-2.5	60	07	POST-SECONDARY VOCATIONAL EDUCATION
224	32511	PHYSICIAN'S ASSISTANTS	40	40	0	0.0	0	05	BACHELOR'S DEGREE
225	32514	OPTICIANS--DISPENSING, MEASURING	80	70	-10	-12.5	10	09	LONG-TERM ON-THE-JOB TRAINING
226	32517	PHARMACISTS	110	110	0	0.0	20	05	BACHELOR'S DEGREE
227	32518	PHARMACY TECHNICIANS	90	100	10	11.1	20	10	MODERATE-TERM ON-THE-JOB TRAINING
228	32521	DIETITIANS AND NUTRITIONISTS	40	40	0	0.0	10	05	BACHELOR'S DEGREE
230	32900	OTHER HEALTH PROFS, PARAPROFS	1,580	1,750	170	10.8	260		
231	32902	MED, CLINICAL LAB TECHNOLOGISTS	60	60	0	0.0	10	05	BACHELOR'S DEGREE
232	32905	MED, CLINICAL LAB ASSISTANTS	120	120	0	0.0	10	06	ASSOCIATE DEGREE
233	32908	DENTAL HYGIENISTS	200	210	10	5.0	30	06	ASSOCIATE DEGREE
234	32911	MEDICAL RECORDS TECHNICIANS	100	120	20	20.0	20	06	ASSOCIATE DEGREE
237	32919	RADIOLOGIC TECHNOLOGISTS	100	100	0	0.0	10	06	ASSOCIATE DEGREE
241	32928	SURGICAL TECHNICIANS	50	60	10	20.0	10	07	POST-SECONDARY VOCATIONAL EDUCATION
243	32951	VETERINARY TECHNICIANS	70	80	10	14.3	10	06	ASSOCIATE DEGREE
244	32999	HEALTH CARE PROFS, PARAPROFS, NEC	880	1,000	120	13.6	160	06	ASSOCIATE DEGREE
245	34000	WRITERS, ARTISTS, ENTER, ATHLETES	740	850	110	14.9	140		
246	34002	WRITERS AND EDITORS	80	90	10	12.5	20	05	BACHELOR'S DEGREE
247	34005	TECHNICAL WRITERS	110	120	10	9.1	20	05	BACHELOR'S DEGREE
248	34008	PUB REL SPECS, PUBLICITY WRITERS	150	180	30	20.0	30	05	BACHELOR'S DEGREE
249	34011	REPORTERS AND CORRESPONDENTS	30	30	0	0.0	10	05	BACHELOR'S DEGREE
257	34035	ARTISTS AND RELATED WORKERS	120	140	20	16.7	20	04	WORK EXP., PLUS BACHELOR'S OR HIGHER
258	34038	DESIGNERS, EX INTERIOR DESIGNERS	70	80	10	14.3	10	05	BACHELOR'S DEGREE
261	34047	MUSIC DIRECTORS, SINGERS, COMPOSERS	60	80	20	33.3	10	09	LONG-TERM ON-THE-JOB TRAINING
262	34051	MUSICIANS--INSTRUMENTAL	120	130	10	8.3	20	09	LONG-TERM ON-THE-JOB TRAINING

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Occupational Employment Projections (1)
1999 - 2006
SANTA CRUZ COUNTY

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			1999(2)	2006					
266	39000	MISC PROFS, PARAPROFS, TECHNICAL	1,640	1,910	270	16.5	290	05	BACHELOR'S DEGREE
272	39999	OTHER PROF, PARAPROF, TECHNICAL	1,640	1,910	270	16.5	290		
273	40000	SALES AND RELATED OCCUPATIONS	12,440	13,660	1,220	9.8	2,830		
274	41000	FIRST-LINE SUP/MGR--SALES	1,510	1,690	180	11.9	140	08	WORK EXPERIENCE
275	43000	SALES AGENTS--SERVICE	680	760	80	11.8	110		
276	43002	SALES AGENTS, PLACERS--INSURANCE	70	80	10	14.3	10	09	LONG-TERM ON-THE-JOB TRAINING
277	43005	BROKERS--REAL ESTATE	30	30	0	0.0	10	08	WORK EXPERIENCE
278	43008	SALES AGENTS--REAL ESTATE	80	80	0	0.0	10	07	POST-SECONDARY VOCATIONAL EDUCATION
280	43014	SALES AGENTS--FINANCIAL SERVICES	100	120	20	20.0	10	09	LONG-TERM ON-THE-JOB TRAINING
281	43017	SALES AGENTS--SEL BUS SERVICES	120	140	20	16.7	20	10	MODERATE-TERM ON-THE-JOB TRAINING
282	43021	TRAVEL AGENTS	120	120	0	0.0	20	07	POST-SECONDARY VOCATIONAL EDUCATION
283	43023	SALES AGENTS--ADVERTISING	110	130	20	18.2	20	10	MODERATE-TERM ON-THE-JOB TRAINING
284	43099	SALES REPS, SERVICE--NEC	50	60	10	20.0	10	10	MODERATE-TERM ON-THE-JOB TRAINING
285	49000	MERCH, PRODUCTS AND OTHER SALES	10,250	11,210	960	9.4	2,580		
286	49002	SALES ENGINEERS	90	80	-10	-11.1	10	05	BACHELOR'S DEGREE
287	49005	SALES REPS, SCIENTIFIC--EX RETAIL	220	230	10	4.5	40	10	MODERATE-TERM ON-THE-JOB TRAINING
288	49008	SALES REPS, NON-SCIENTIFIC EX RETAIL	640	670	30	4.7	110	10	MODERATE-TERM ON-THE-JOB TRAINING
289	49011	SALESPERSONS, RETAIL	4,140	4,480	340	8.2	1,040	11	SHORT-TERM ON-THE-JOB TRAINING
290	49014	SALESPERSONS--PARTS	330	320	-10	-3.0	70	10	MODERATE-TERM ON-THE-JOB TRAINING

Table 6
Occupational Employment Projections (1)
1999 - 2006
SANTA CRUZ COUNTY

LINE #	CA OES CODE	OCCUPATION	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS	BLS TRAINING LEVEL	EDUCATION/EXPERIENCE
			1999(2)	2006					
291	49017	COUNTER AND RENTAL CLERKS	490	620	130	26.5	170	11	SHORT-TERM ON-THE-JOB TRAINING
292	49021	STOCK CLERKS--SALES FLOOR	1,110	1,110	0	0.0	120	11	SHORT-TERM ON-THE-JOB TRAINING
293	49023	CASHIERS	2,590	2,900	310	12.0	870	11	SHORT-TERM ON-THE-JOB TRAINING
294	49026	TELEMARKETERS, SOLICITORS & RELATED	120	140	20	16.7	20	11	SHORT-TERM ON-THE-JOB TRAINING
295	49034	DEMONSTRATORS AND PROMOTERS	40	40	0	0.0	10	10	MODERATE-TERM ON-THE-JOB TRAINING
297	49999	SALES AND RELATED WORKERS, NEC	480	620	140	29.2	120	10	MODERATE-TERM ON-THE-JOB TRAINING
298	50000	CLERICAL, ADMINISTRATIVE SUPPORT	15,600	16,880	1,280	8.2	2,440		
299	51000	FIRST-LINE SUP/MGR, CLERICAL, ADM SUPPORT	1,270	1,420	150	11.8	210	08	WORK EXPERIENCE
300	53000	INDUSTRY SPECIFIC CLERICAL, ADMIN	2,190	2,590	400	18.3	420		
301	53100	BANKING, SECURITY, FINANCE, CREDIT	810	890	80	9.9	180		
302	53102	TELLERS	440	470	30	6.8	140	11	SHORT-TERM ON-THE-JOB TRAINING
303	53105	NEW ACCOUNTS CLERKS	60	80	20	33.3	20	08	WORK EXPERIENCE
308	53121	LOAN AND CREDIT CLERKS	130	140	10	7.7	10	11	SHORT-TERM ON-THE-JOB TRAINING
309	53123	ADJUSTMENT CLERKS	180	200	20	11.1	10	11	SHORT-TERM ON-THE-JOB TRAINING
312	53300	INSURANCE WORKERS	150	160	10	6.7	30		
313	53302	INS ADJUST, EXAMIN, INVESTIGATORS	40	50	10	25.0	10	09	LONG-TERM ON-THE-JOB TRAINING
316	53311	INSURANCE CLAIMS CLERKS	40	40	0	0.0	10	10	MODERATE-TERM ON-THE-JOB TRAINING
317	53314	INSURANCE POLICY PROCESSING CLERKS	70	70	0	0.0	10	10	MODERATE-TERM ON-THE-JOB TRAINING
318	53500	INVESTIGATIVE, RELATED, EX INSURANCE	150	190	40	26.7	30		
319	53502	WELFARE ELIG WORKERS, INTERVIEWERS	40	40	0	0.0	10	10	MODERATE-TERM ON-THE-JOB TRAINING

Table 6
Occupational Employment Projections (1)
1999 - 2006
SANTA CRUZ COUNTY

LINE #	CA OES CODE	OCCUPATION	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS	BLS TRAINING LEVEL	EDUCATION/EXPERIENCE
			1999(2)	2006					
321	53508	BILL AND ACCOUNT COLLECTORS	110	150	40	36.4	20	11	SHORT-TERM ON-THE-JOB TRAINING
326	53800	LODGING AND TRAVEL WORKERS	210	250	40	19.0	60		
327	53802	TRAVEL CLERKS	50	50	0	0.0	10	11	SHORT-TERM ON-THE-JOB TRAINING
329	53808	HOTEL DESK CLERKS	160	200	40	25.0	50	11	SHORT-TERM ON-THE-JOB TRAINING
330	53900	MISC INDUSTRY SPECIFIC CLERICAL	870	1,100	230	26.4	120		
331	53902	LIBRARY ASSTS & BOOKMOBILE DRIVERS	140	170	30	21.4	50	11	SHORT-TERM ON-THE-JOB TRAINING
332	53905	TEACHER AIDES & EDUC ASSTS, CLERICAL	730	930	200	27.4	70	11	SHORT-TERM ON-THE-JOB TRAINING
336	55000	SECRETARIAL, GENERAL OFFICE OCCS	8,180	8,650	470	5.7	1,280		
337	55100	SECRETARIES	1,700	1,790	90	5.3	200		
338	55102	SECRETARIES, LEGAL	150	160	10	6.7	20	07	POST-SECONDARY VOCATIONAL EDUCATION
339	55105	SECRETARIES, MEDICAL	80	70	-10	-12.5	10	07	POST-SECONDARY VOCATIONAL EDUCATION
340	55108	SECRETARIES, GENERAL	1,470	1,560	90	6.1	170	07	POST-SECONDARY VOCATIONAL EDUCATION
341	55300	MISC SECRETARIAL, GENL OFF OCCS	6,480	6,860	380	5.9	1,080		
342	55302	STENOGRAPHERS AND/OR COURT REPORTED	60	60	0	0.0	10	07	POST-SECONDARY VOCATIONAL EDUCATION
343	55305	RECEPTIONISTS, INFORMATION CLERKS	1,160	1,240	80	6.9	160	11	SHORT-TERM ON-THE-JOB TRAINING
344	55307	TYPISTS, INCLUDING WORD PROCESSING	240	210	-30	-12.5	30	10	MODERATE-TERM ON-THE-JOB TRAINING
345	55314	PERS CLERKS--EX PAYROLL	70	70	0	0.0	10	11	SHORT-TERM ON-THE-JOB TRAINING
347	55321	FILE CLERKS	100	100	0	0.0	20	11	SHORT-TERM ON-THE-JOB TRAINING
348	55323	ORDER CLERKS--MATERIALS, SERVICE	280	270	-10	-3.6	50	11	SHORT-TERM ON-THE-JOB TRAINING
351	55332	INTERVIEW CLERKS--EX PERS, WELFARE	50	60	10	20.0	10	11	SHORT-TERM ON-THE-JOB TRAINING
352	55335	CUSTOMER SERVICE REPS--UTILITIES	100	120	20	20.0	20	11	SHORT-TERM ON-THE-JOB TRAINING
353	55338	BOOKKEEPING, ACCOUNTING CLERKS	1,610	1,630	20	1.2	210	10	MODERATE-TERM ON-THE-JOB TRAINING
354	55341	PAYROLL AND TIMEKEEPING CLERKS	110	110	0	0.0	20	11	SHORT-TERM ON-THE-JOB TRAINING

Table 6
Occupational Employment Projections (1)
1999 - 2006
SANTA CRUZ COUNTY

LINE #	CA OES CODE	OCCUPATION	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS	BLS TRAINING LEVEL	EDUCATION/EXPERIENCE
			1999(2)	2006					
355	55344	BILLING, COST, AND RATE CLERKS	180	180	0	0.0	20	11	SHORT-TERM ON-THE-JOB TRAINING
356	55347	GENERAL OFFICE CLERKS	2,520	2,810	290	11.5	520	11	SHORT-TERM ON-THE-JOB TRAINING
357	56000	EDP AND OFFICE MACHINE OCCUPATIONS	370	400	30	8.1	50		
358	56002	BILLING, POSTING, CALC MACHINE OPS	50	50	0	0.0	10	11	SHORT-TERM ON-THE-JOB TRAINING
359	56005	DUPLICATING MACHINE OPERATORS	90	120	30	33.3	20	11	SHORT-TERM ON-THE-JOB TRAINING
361	56011	COMPUTER OPS--EX PERIPHERAL EQUIPMENT	70	60	-10	-14.3	10	10	MODERATE-TERM ON-THE-JOB TRAINING
363	56017	DATA ENTRY KEYERS--EX COMPOSING	160	170	10	6.3	10	07	POST-SECONDARY VOCATIONAL EDUCATION
366	57000	COMMUNICATIONS, MAIL DISTRIBUTION	640	660	20	3.1	110		
367	57100	COMMUNICATION EQUIPMENT OPERATORS	220	190	-30	-13.6	30		
368	57102	SWITCHBOARD OPERATORS	70	70	0	0.0	10	11	SHORT-TERM ON-THE-JOB TRAINING
370	57108	CENTRAL OFFICE OPERATORS	150	120	-30	-20.0	20	10	MODERATE-TERM ON-THE-JOB TRAINING
373	57300	MAIL, MESSAGE DISTRIBUTION WORKERS	420	470	50	11.9	80		
374	57302	MAIL CLKS-EX MAIL MACH OPS, POSTAL	50	60	10	20.0	10	11	SHORT-TERM ON-THE-JOB TRAINING
375	57305	POSTAL MAIL CARRIERS	310	350	40	12.9	60	11	SHORT-TERM ON-THE-JOB TRAINING
377	57311	MESSENGERS	60	60	0	0.0	10	11	SHORT-TERM ON-THE-JOB TRAINING
378	58000	MATERIAL RECORDING, DISPATCHING	2,120	2,240	120	5.7	270		
379	58002	DISPATCH--POLICE, FIRE, AMBULANCE	60	70	10	16.7	10	10	MODERATE-TERM ON-THE-JOB TRAINING
380	58005	DISPATCH--EX POLICE, FIRE, AMBULANCE	130	150	20	15.4	20	10	MODERATE-TERM ON-THE-JOB TRAINING
381	58008	PROD, PLANNING, EXPEDITING CLERKS	60	60	0	0.0	10	11	SHORT-TERM ON-THE-JOB TRAINING
383	58014	METER READERS--UTILITIES	80	100	20	25.0	20	11	SHORT-TERM ON-THE-JOB TRAINING
386	58023	STOCK CLERKS--STOCKROOM, WAREHOUSE	910	970	60	6.6	100	11	SHORT-TERM ON-THE-JOB TRAINING

Table 6
Occupational Employment Projections (1)
1999 - 2006
SANTA CRUZ COUNTY

LINE #	CA OES CODE	OCCUPATION	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS	BLS TRAINING LEVEL	EDUCATION/EXPERIENCE
			1999(2)	2006					
387	58026	ORDER FILLERS--WHLE & RET SALES	130	150	20	15.4	20	11	SHORT-TERM ON-THE-JOB TRAINING
388	58028	TRAFFIC, SHIPPING, RECEIVING CLERKS	700	690	-10	-1.4	80	11	SHORT-TERM ON-THE-JOB TRAINING
389	58099	MATERIAL RECORDING, RELATED, NEC	50	50	0	0.0	10	11	SHORT-TERM ON-THE-JOB TRAINING
390	59000	CLERICAL, ADMIN SUPPORT, NEC	830	920	90	10.8	100	11	SHORT-TERM ON-THE-JOB TRAINING
392	60000	SERVICE OCCUPATIONS	16,490	18,230	1,740	10.6	4,240		
393	61000	FIRST-LINE SUP/MGR--SERVICE	800	950	150	18.8	150		
394	61002	FIRE FIGHTING & PREVENTION SUPERVISORS	90	110	20	22.2	20	08	WORK EXPERIENCE
395	61005	POLICE AND DETECTIVE SUPERVISORS	80	100	20	25.0	20	08	WORK EXPERIENCE
396	61008	HOUSEKEEPING SUPERVISORS	50	60	10	20.0	10	08	WORK EXPERIENCE
397	61099	FIRST-LINE SUP/MGR SERV WKRS, NEC	580	680	100	17.2	100	08	WORK EXPERIENCE
398	63000	PROTECTIVE SERVICE OCCUPATIONS	1,520	1,910	390	25.7	370		
401	63008	FIRE FIGHTERS	280	330	50	17.9	50	09	LONG-TERM ON-THE-JOB TRAINING
402	63011	POLICE DETECTIVES	40	50	10	25.0	10	08	WORK EXPERIENCE
403	63014	POLICE PATROL OFFICERS	310	430	120	38.7	70	09	LONG-TERM ON-THE-JOB TRAINING
414	63047	GUARDS AND WATCH GUARDS	740	920	180	24.3	150	11	SHORT-TERM ON-THE-JOB TRAINING
415	63099	PROTECTIVE SERVICE WORKERS, NEC	150	180	30	20.0	90	11	SHORT-TERM ON-THE-JOB TRAINING
416	65000	FOOD, BEV PREP AND SERVICE OCCS	8,570	9,080	510	6.0	2,910		
417	65002	HOSTS, HOSTESSES--RESTAURANTS	320	350	30	9.4	70	11	SHORT-TERM ON-THE-JOB TRAINING
418	65005	BARTENDERS	390	380	-10	-2.6	120	11	SHORT-TERM ON-THE-JOB TRAINING

Table 6
Occupational Employment Projections (1)
1999 - 2006
SANTA CRUZ COUNTY

LINE #	CA OES CODE	OCCUPATION	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS	BLS TRAINING LEVEL	EDUCATION/EXPERIENCE
			1999(2)	2006					
419	65008	WAITERS AND WAITRESSES	2,070	2,230	160	7.7	840	11	SHORT-TERM ON-THE-JOB TRAINING
420	65011	FOOD SERVERS--OUTSIDE	50	50	0	0.0	30	11	SHORT-TERM ON-THE-JOB TRAINING
421	65014	DINING RM ATTENDANTS, BAR HELPERS	510	510	0	0.0	120	11	SHORT-TERM ON-THE-JOB TRAINING
422	65017	COUNTER ATTENDANTS--FOOD	390	410	20	5.1	250	11	SHORT-TERM ON-THE-JOB TRAINING
423	65021	BAKERS--BREAD AND PASTRY	340	360	20	5.9	70	10	MODERATE-TERM ON-THE-JOB TRAINING
424	65023	BUTCHERS AND MEAT CUTTERS	170	160	-10	-5.9	30	09	LONG-TERM ON-THE-JOB TRAINING
425	65026	COOKS--RESTAURANT	810	900	90	11.1	160	09	LONG-TERM ON-THE-JOB TRAINING
426	65028	COOKS--INSTITUTION OR CAFETERIA	150	160	10	6.7	30	09	LONG-TERM ON-THE-JOB TRAINING
427	65032	COOKS--SPECIALTY FAST FOOD	420	460	40	9.5	80	11	SHORT-TERM ON-THE-JOB TRAINING
428	65035	COOKS--SHORT ORDER	170	180	10	5.9	30	11	SHORT-TERM ON-THE-JOB TRAINING
429	65038	FOOD PREPARATION WORKERS	1,110	1,170	60	5.4	440	11	SHORT-TERM ON-THE-JOB TRAINING
430	65041	COMBINED FOOD PREP AND SERVICE	1,380	1,460	80	5.8	550	11	SHORT-TERM ON-THE-JOB TRAINING
431	65099	FOOD SERVICE WORKERS, NEC	290	300	10	3.4	90	11	SHORT-TERM ON-THE-JOB TRAINING
432	66000	HEALTH SERVICE, RELATED OCCS	1,520	1,600	80	5.3	200		
433	66002	DENTAL ASSISTANTS	290	300	10	3.4	30	10	MODERATE-TERM ON-THE-JOB TRAINING
434	66005	MEDICAL ASSISTANTS	350	370	20	5.7	60	10	MODERATE-TERM ON-THE-JOB TRAINING
435	66008	NURSE AIDES, ORDERLIES, ATTENDANTS	610	630	20	3.3	60	11	SHORT-TERM ON-THE-JOB TRAINING
436	66011	HOME HEALTH CARE WORKERS	80	90	10	12.5	10	11	SHORT-TERM ON-THE-JOB TRAINING
438	66017	PHYSICAL THERAPY ASSISTANTS & AIDE	140	160	20	14.3	30	10	MODERATE-TERM ON-THE-JOB TRAINING
442	66099	HEALTH SERVICE WORKERS, NEC	50	50	0	0.0	10	11	SHORT-TERM ON-THE-JOB TRAINING
443	67000	CLEANING, BLDING SERV EX PRIVATE HOUSES	2,140	2,420	280	13.1	320		
444	67002	MAIDS AND HOUSEKEEPING CLEANERS	740	840	100	13.5	100	11	SHORT-TERM ON-THE-JOB TRAINING
445	67005	JANITORS, CLEANERS--EXCEPT MAIDS	1,200	1,330	130	10.8	190	11	SHORT-TERM ON-THE-JOB TRAINING
446	67008	PEST CONTROLLERS AND ASSISTANTS	110	150	40	36.4	20	10	MODERATE-TERM ON-THE-JOB TRAINING
448	67099	CLEANING, BLDING SERV--EX PH, NEC	90	100	10	11.1	10	11	SHORT-TERM ON-THE-JOB TRAINING

Table 6
Occupational Employment Projections (1)
1999 - 2006
SANTA CRUZ COUNTY

LINE #	CA OES CODE	OCCUPATION	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS	BLS TRAINING LEVEL	EDUCATION/EXPERIENCE
			1999(2)	2006					
449	68000	MISC PERSONAL SERVICE OCCUPATIONS	1,450	1,710	260	17.9	190		
451	68005	HAIRDRESSERS, HAIRSTYLISTS	180	220	40	22.2	40	07	POST-SECONDARY VOCATIONAL EDUCATION
452	68008	MANICURISTS	40	60	20	50.0	10	07	POST-SECONDARY VOCATIONAL EDUCATION
454	68014	AMUSEMENT, RECREATION ATTENDANTS	290	310	20	6.9	40	11	SHORT-TERM ON-THE-JOB TRAINING
456	68021	USHERS, LOBBY ATTENDANTS	80	100	20	25.0	10	11	SHORT-TERM ON-THE-JOB TRAINING
457	68023	BAGGAGE PORTERS AND BELLHOPS	30	30	0	0.0	0	11	SHORT-TERM ON-THE-JOB TRAINING
461	68035	PERSONAL AND HOME CARE AIDES	260	300	40	15.4	50	11	SHORT-TERM ON-THE-JOB TRAINING
462	68038	CHILD CARE WORKERS	570	690	120	21.1	40	11	SHORT-TERM ON-THE-JOB TRAINING
464	69000	MISC SERVICE WORKERS	490	560	70	14.3	100	08	WORK EXPERIENCE
466	70000	AGRICULTURAL, FORESTRY, FISHING	1,900	2,170	270	14.2	380		
467	72000	FIRST-LINE SUP/MGR--AG, FOR, FISH	40	40	0	0.0	0	08	WORK EXPERIENCE
475	79000	MISC AG, FORESTRY, FISHING	1,860	2,130	270	14.5	380		
476	79002	FOREST, CONSERVATION WORKERS	90	110	20	22.2	20	11	SHORT-TERM ON-THE-JOB TRAINING
478	79011	GRADERS, SORTERS--AG PRODUCTS	360	350	-10	-2.8	60	11	SHORT-TERM ON-THE-JOB TRAINING
481	79017	ANIMAL CARETAKERS--EXCEPT FARM	120	150	30	25.0	10	11	SHORT-TERM ON-THE-JOB TRAINING
483	79033	PRUNERS	40	50	10	25.0	10	11	SHORT-TERM ON-THE-JOB TRAINING
485	79041	LABORERS, LANDSCAPING/GROUNDSKEEPING	1,030	1,220	190	18.4	240	11	SHORT-TERM ON-THE-JOB TRAINING
486	79806	VETERINARY ASSISTANTS	70	90	20	28.6	10	11	SHORT-TERM ON-THE-JOB TRAINING
489	79999	AG, FORESTRY, FISHING--NEC	150	160	10	6.7	30	11	SHORT-TERM ON-THE-JOB TRAINING

Table 6
Occupational Employment Projections (1)
1999 - 2006
SANTA CRUZ COUNTY

LINE #	CA OES CODE	OCCUPATION	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS	BLS TRAINING LEVEL	EDUCATION/EXPERIENCE
			1999(2)	2006					
490	80000	PROD, CONST, OPER, MAT HANDLING	18,900	20,340	1,440	7.6	3,320		
491	81000	FIRST-LINE SUP/MGR-BLUE COLLAR	980	1,080	100	10.2	190		
492	81002	FIRST-LINE SUP/MGR-MECH, REPAIRERS	230	250	20	8.7	50	08	WORK EXPERIENCE
493	81005	FIRST-LINE SUP/MGR-CONSTRUCTION	140	170	30	21.4	30	08	WORK EXPERIENCE
494	81008	FIRST-LINE SUP/MGR-PRODUCTION	220	210	-10	-4.5	40	08	WORK EXPERIENCE
495	81011	FIRST-LINE SUP/MGR-TRANSPORTATION	70	80	10	14.3	10	08	WORK EXPERIENCE
496	81017	FIRST-LINE SUP/MGR-HELP, LABORERS	70	80	10	14.3	10	08	WORK EXPERIENCE
497	81099	FIRST-LINE SUP/MGR-BLUE COLLAR NEC	250	290	40	16.0	50	08	WORK EXPERIENCE
498	83000	INSPECTORS, RELATED OCCUPATIONS	660	650	-10	-1.5	100		
499	83002	INSPECTORS, TESTERS, & GRADERS, PRECI	210	170	-40	-19.0	30	08	WORK EXPERIENCE
500	83005	PROD INSPECTORS, TESTERS, & GRADER	90	80	-10	-11.1	10	08	WORK EXPERIENCE
502	83099	INSPECTORS, TESTERS, RELATED, NEC	360	400	40	11.1	60	08	WORK EXPERIENCE
503	85000	MECHANICS, INSTALLERS, REPAIRERS	3,220	3,610	390	12.1	610		
504	85100	MACHINERY AND RELATED MECHANICS	1,160	1,270	110	9.5	200		
505	85110	MACHINERY MAINTENANCE MECHANICS	180	200	20	11.1	30	09	LONG-TERM ON-THE-JOB TRAINING
510	85118	MAINT MECHANICS--WATER, POWER	30	30	0	0.0	10	09	LONG-TERM ON-THE-JOB TRAINING
512	85123	MILLWRIGHTS	60	80	20	33.3	10	09	LONG-TERM ON-THE-JOB TRAINING
514	85128	MACHINERY MAINTENANCE WORKERS	30	30	0	0.0	10	09	LONG-TERM ON-THE-JOB TRAINING
515	85132	MAINT REPAIRERS, GENL UTILITY	860	930	70	8.1	140	09	LONG-TERM ON-THE-JOB TRAINING

Table 6
Occupational Employment Projections (1)
1999 - 2006
SANTA CRUZ COUNTY

LINE #	CA OES CODE	OCCUPATION	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS	BLS TRAINING LEVEL	EDUCATION/EXPERIENCE
			1999(2)	2006					
516	85300	MOBILE EQUIP MECHANICS, REPAIRERS	990	1,130	140	14.1	180		
517	85302	AUTOMOTIVE MECHANICS	500	580	80	16.0	90	09	LONG-TERM ON-THE-JOB TRAINING
518	85305	AUTOMOTIVE BODY, RELATED REPAIRERS	210	250	40	19.0	50	09	LONG-TERM ON-THE-JOB TRAINING
520	85311	BUS AND TRUCK MECHANICS	150	160	10	6.7	20	09	LONG-TERM ON-THE-JOB TRAINING
521	85314	MOBILE HEAVY EQUIP MECH--EX ENGINE	60	70	10	16.7	10	09	LONG-TERM ON-THE-JOB TRAINING
523	85321	FARM EQUIPMENT MECHANICS	70	70	0	0.0	10	09	LONG-TERM ON-THE-JOB TRAINING
535	85700	OTHER ELECTRICAL EQUIP MECHANICS	480	550	70	14.6	110		
536	85702	TELEPHONE, CABLE TV INSTALLERS	250	290	40	16.0	60	09	LONG-TERM ON-THE-JOB TRAINING
543	85723	ELECT POWERLINE INSTALLERS	110	130	20	18.2	20	09	LONG-TERM ON-THE-JOB TRAINING
544	85726	STATION INSTALLERS--TELEPHONE	40	30	-10	-25.0	10	07	POST-SECONDARY VOCATIONAL EDUCATION
546	85799	ELECT EQUIP MECHANICS, NEC	80	100	20	25.0	20	09	LONG-TERM ON-THE-JOB TRAINING
547	85900	MISC MECH, INSTALLERS, REPAIRERS	590	660	70	11.9	120		
548	85902	HEATING, AC, REFRIG MECHANICS	80	100	20	25.0	10	09	LONG-TERM ON-THE-JOB TRAINING
549	85905	INSTRUMENT REPAIRERS, PRECISION	30	30	0	0.0	10	09	LONG-TERM ON-THE-JOB TRAINING
557	85928	MECH CONTROL, VALVE INSTALLERS	100	110	10	10.0	20	09	LONG-TERM ON-THE-JOB TRAINING
560	85938	INSTALLER & REPAIRER, MOBILE HOME	30	40	10	33.3	10	09	LONG-TERM ON-THE-JOB TRAINING
563	85951	BICYCLE REPAIRERS	50	60	10	20.0	10	10	MODERATE-TERM ON-THE-JOB TRAINING
564	85953	TIRE REPAIRERS AND CHANGERS	80	90	10	12.5	30	11	SHORT-TERM ON-THE-JOB TRAINING
566	85999	MECHS, INSTALLERS, REPAIRERS, NEC	220	230	10	4.5	30	09	LONG-TERM ON-THE-JOB TRAINING
567	87000	CONSTRUCTION TRADES	2,550	3,030	480	18.8	490		
568	87100	CARPENTERS AND RELATED WORKERS	960	1,140	180	18.8	200		
569	87102	CARPENTERS	870	1,040	170	19.5	180	09	LONG-TERM ON-THE-JOB TRAINING
570	87105	CEILING TILE INSTALLERS	30	30	0	0.0	10	10	MODERATE-TERM ON-THE-JOB TRAINING
573	87114	LATHERS	60	70	10	16.7	10	10	MODERATE-TERM ON-THE-JOB TRAINING

Table 6
Occupational Employment Projections (1)
1999 - 2006
SANTA CRUZ COUNTY

LINE #	CA OES CODE	OCCUPATION	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS	BLS TRAINING LEVEL	EDUCATION/EXPERIENCE
			1999(2)	2006					
575	87200	ELECTRICIANS AND RELATED WORKERS	190	230	40	21.1	30		
576	87202	ELECTRICIANS	190	230	40	21.1	30	09	LONG-TERM ON-THE-JOB TRAINING
577	87300	MASONS AND RELATED WORKERS	160	200	40	25.0	30		
578	87302	BRICK MASONS	30	40	10	33.3	10	09	LONG-TERM ON-THE-JOB TRAINING
581	87311	CONCRETE AND TERRAZZO FINISHERS	90	110	20	22.2	10	09	LONG-TERM ON-THE-JOB TRAINING
583	87317	PLASTERERS AND STUCCO MASONS	40	50	10	25.0	10	09	LONG-TERM ON-THE-JOB TRAINING
584	87400	PAINTERS AND RELATED WORKERS	270	310	40	14.8	50		
585	87402	PAINTERS, PAPERHANGERS--CONSTRUCTION	270	310	40	14.8	50	10	MODERATE-TERM ON-THE-JOB TRAINING
586	87500	PLUMBERS AND RELATED WORKERS	290	350	60	20.7	30		
587	87502	PLUMBERS, PIPEFITTERS, STEAMFITTER	290	350	60	20.7	30	09	LONG-TERM ON-THE-JOB TRAINING
591	87600	CARPET, FLOOR INSTALLERS	80	100	20	25.0	20		
593	87605	FLOOR LAYERS--EX CARPET, WOOD, TILES	80	100	20	25.0	20	10	MODERATE-TERM ON-THE-JOB TRAINING
595	87700	SELECTED ROAD, RAIL AND RELATED	210	260	50	23.8	40		
598	87708	PAVING, TAMPING-EQUIP OPERATORS	80	100	20	25.0	20	10	MODERATE-TERM ON-THE-JOB TRAINING
599	87711	HIGHWAY MAINTENANCE WORKERS	130	160	30	23.1	20	11	SHORT-TERM ON-THE-JOB TRAINING
601	87800	CONSTRUCTION TRADES, NEC	300	360	60	20.0	70		
603	87803	HAZARDOUS MATERIALS REMOVAL WORKER	40	50	10	25.0	10	07	POST-SECONDARY VOCATIONAL EDUCATION
605	87808	ROOFERS	150	180	30	20.0	40	10	MODERATE-TERM ON-THE-JOB TRAINING
609	87899	CONSTRUCTION TRADES WORKERS, NEC	110	130	20	18.2	20	10	MODERATE-TERM ON-THE-JOB TRAINING
610	87900	EXTRACTIVE AND RELATED WORKERS	90	80	-10	-11.1	20		
624	87999	CONST, EXTRACTIVE--EX HELPERS, NEC	90	80	-10	-11.1	20	10	MODERATE-TERM ON-THE-JOB TRAINING

Table 6
Occupational Employment Projections (1)
1999 - 2006
SANTA CRUZ COUNTY

LINE #	CA OES CODE	OCCUPATION	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS	BLS TRAINING LEVEL	EDUCATION/EXPERIENCE
			1999(2)	2006					
625	89000	PRODUCTION OCCUPATIONS, PRECISION	1,090	1,210	120	11.0	170		
626	89100	METAL WORKERS, PRECISION	220	240	20	9.1	40		
629	89108	MACHINISTS	130	120	-10	-7.7	20	09	LONG-TERM ON-THE-JOB TRAINING
637	89132	SHEET METAL WORKERS	90	120	30	33.3	20	10	MODERATE-TERM ON-THE-JOB TRAINING
640	89300	WOODWORKERS, PRECISION	180	190	10	5.6	20		
644	89311	CABINETMAKERS AND BENCH CARPENTERS	110	120	10	9.1	10	09	LONG-TERM ON-THE-JOB TRAINING
646	89399	WOODWORKERS, NEC--PRECISION	70	70	0	0.0	10	09	LONG-TERM ON-THE-JOB TRAINING
656	89700	PRINTING WORKERS, PRECISION	30	40	10	33.3	0		
660	89707	ELECTRONIC PAGINATION SYSTEM WORKERS	30	40	10	33.3	0	09	LONG-TERM ON-THE-JOB TRAINING
670	89800	FOOD WORKERS, PRECISION	40	50	10	25.0	0		
672	89805	BAKERS--MANUFACTURING	40	50	10	25.0	0	10	MODERATE-TERM ON-THE-JOB TRAINING
675	89900	OTHER PRECISION WORKERS	620	690	70	11.3	110		
685	89999	WORKERS, PRECISION--NEC	620	690	70	11.3	110	09	LONG-TERM ON-THE-JOB TRAINING
686	91000	MACH SETTERS, SET-UP, OPS, TENDERS	1,210	1,220	10	0.8	200		
687	91100	MACH TOOL CUTTING--METAL, PLASTIC	30	30	0	0.0	10		
693	91117	MACH TOOL CUTTING OPS--METAL, PLASTIC	30	30	0	0.0	10	10	MODERATE-TERM ON-THE-JOB TRAINING
702	91500	MACH TOOL SETTERS, OPS--METAL, PLASTIC	30	40	10	33.3	10		
703	91502	NUMERICAL MACH TOOL OPS--MET, PLASTIC	30	40	10	33.3	10	10	MODERATE-TERM ON-THE-JOB TRAINING

Table 6
Occupational Employment Projections (1)
1999 - 2006
SANTA CRUZ COUNTY

LINE #	CA OES CODE	OCCUPATION	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS	BLS TRAINING LEVEL	EDUCATION/EXPERIENCE
			1999(2)	2006					
712	91900	METAL, PLAST PROCESS MACH SETTERS	70	60	-10	-14.3	10		
714	91905	PLASTIC MOLDING, CASTING MACH OPS	70	60	-10	-14.3	10	10	MODERATE-TERM ON-THE-JOB TRAINING
727	92100	METAL, PLAST MACH SETTERS, OPS NEC	60	60	0	0.0	10		
729	92198	CUT, FORM, FAB, PROCESS MACH OPS	60	60	0	0.0	10	10	MODERATE-TERM ON-THE-JOB TRAINING
736	92500	PRINTING, BINDING, RELATED WORKERS	40	40	0	0.0	10		
746	92543	PRINTING PRESS MACHINE OPS, TENDER	40	40	0	0.0	10	10	MODERATE-TERM ON-THE-JOB TRAINING
750	92700	TEXTILE, RELATED SETTERS, OPS	170	200	30	17.6	30		
756	92717	SEWING MACHINE OPERATORS--GARMENT	30	30	0	0.0	0	10	MODERATE-TERM ON-THE-JOB TRAINING
759	92726	LNDRY, DRYCLEAN MACH OPS--EX PRESS	80	100	20	25.0	20	10	MODERATE-TERM ON-THE-JOB TRAINING
760	92728	PRESSING MACH OPS--TEXTILE, GARMEN	60	70	10	16.7	10	10	MODERATE-TERM ON-THE-JOB TRAINING
761	92900	MACH SETTER,SET-UP,OP--EX MET,PLASTIC	810	790	-20	-2.5	120		
779	92953	PAINTING, REL MACH OPS, TENDERS	30	30	0	0.0	0	10	MODERATE-TERM ON-THE-JOB TRAINING
782	92962	SEPARATING, STILL MACH OPS, TENDERS	30	30	0	0.0	10	10	MODERATE-TERM ON-THE-JOB TRAINING
783	92965	CRUSHING, MIXING MACH OPS, TENDERS	40	40	0	0.0	10	10	MODERATE-TERM ON-THE-JOB TRAINING
786	92974	PACKAGING, FILLING MACH OPS, TENDERS	410	390	-20	-4.9	70	10	MODERATE-TERM ON-THE-JOB TRAINING
787	92997	MACHINE SETTERS & SET-UP OPS, NEC	40	50	10	25.0	0	10	MODERATE-TERM ON-THE-JOB TRAINING
788	92998	MACHINE OPERATORS AND TENDERS, NEC	260	250	-10	-3.8	30	10	MODERATE-TERM ON-THE-JOB TRAINING
789	93000	ASSEMBLERS AND FABRICATORS--HAND	1,270	1,230	-40	-3.1	210		
790	93100	ASSEMBLERS, PRECISION	30	30	0	0.0	10		
793	93108	FITTERS, STRUCTURAL METAL--PRECISION	30	30	0	0.0	10	08	WORK EXPERIENCE

Table 6
Occupational Employment Projections (1)
1999 - 2006
SANTA CRUZ COUNTY

LINE #	CA OES CODE	OCCUPATION	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS	BLS TRAINING LEVEL	EDUCATION/EXPERIENCE
			1999(2)	2006					
798	93900	OTHER HAND WORKERS	1,240	1,200	-40	-3.2	200		
800	93905	ELECTRICAL, ELECTRONIC ASSEMBLERS	110	80	-30	-27.3	10	11	SHORT-TERM ON-THE-JOB TRAINING
803	93914	WELDERS AND CUTTERS	120	120	0	0.0	20	07	POST-SECONDARY VOCATIONAL EDUCATION
810	93935	CANNERY WORKERS	380	320	-60	-15.8	60	11	SHORT-TERM ON-THE-JOB TRAINING
817	93956	ASSEMB, FABRICATORS--EX MACH,ELECT	310	310	0	0.0	40	11	SHORT-TERM ON-THE-JOB TRAINING
818	93999	HAND WORKERS, NEC	320	370	50	15.6	70	11	SHORT-TERM ON-THE-JOB TRAINING
819	95000	PLANT AND SYSTEM OCCUPATIONS	350	440	90	25.7	70		
820	95002	WATER TREATMENT PLANT OPERATORS	290	370	80	27.6	50	09	LONG-TERM ON-THE-JOB TRAINING
822	95008	CHEMICAL PLANT, SYSTEM OPERATORS	30	30	0	0.0	10	09	LONG-TERM ON-THE-JOB TRAINING
831	95099	PLANT AND SYSTEM OPERATORS, NEC	30	40	10	33.3	10	09	LONG-TERM ON-THE-JOB TRAINING
832	97000	TRANS, MATERIAL MOVING MACHINE OPS	3,510	3,780	270	7.7	420		
833	97100	MOTOR VEHICLE OPERATORS	2,810	3,080	270	9.6	320		
834	97102	TRUCK DRIVERS, HEAVY	940	1,020	80	8.5	100	11	SHORT-TERM ON-THE-JOB TRAINING
835	97105	TRUCK DRIVERS, LIGHT	980	1,080	100	10.2	100	11	SHORT-TERM ON-THE-JOB TRAINING
836	97108	BUS DRIVERS	290	340	50	17.2	40	10	MODERATE-TERM ON-THE-JOB TRAINING
837	97111	BUS DRIVERS--SCHOOL	160	180	20	12.5	20	11	SHORT-TERM ON-THE-JOB TRAINING
838	97114	TAXI DRIVERS AND CHAUFFEURS	70	80	10	14.3	10	11	SHORT-TERM ON-THE-JOB TRAINING
839	97117	DRIVER/SALES WORKERS	370	380	10	2.7	50	11	SHORT-TERM ON-THE-JOB TRAINING
859	97800	MISC TRANSPORTATION WORKERS	110	100	-10	-9.1	30		
861	97805	SERVICE STATION ATTENDANTS	70	60	-10	-14.3	20	11	SHORT-TERM ON-THE-JOB TRAINING
863	97899	TRANS AND RELATED WORKERS, NEC	40	40	0	0.0	10	10	MODERATE-TERM ON-THE-JOB TRAINING
864	97900	MATERIAL MOVEMENT EQUIP OPERATORS	590	600	10	1.7	70		

Table 6
Occupational Employment Projections (1)
1999 - 2006
SANTA CRUZ COUNTY

LINE #	CA OES CODE	OCCUPATION	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS	BLS TRAINING LEVEL	EDUCATION/EXPERIENCE
			1999(2)	2006					
872	97923	EXCAVATING, LOADING MACHINE OPERATORS	30	20	-10	-33.3	0	10	MODERATE-TERM ON-THE-JOB TRAINING
877	97938	GRADER, DOZER, SCRAPER OPERATORS	40	40	0	0.0	0	10	MODERATE-TERM ON-THE-JOB TRAINING
880	97947	INDUSTRIAL TRUCK, TRACTOR OPERATORS	240	240	0	0.0	20	11	SHORT-TERM ON-THE-JOB TRAINING
881	97951	CONVEYOR OPERATORS AND TENDERS	30	30	0	0.0	10	10	MODERATE-TERM ON-THE-JOB TRAINING
883	97956	OPERATING ENGINEERS	80	80	0	0.0	10	10	MODERATE-TERM ON-THE-JOB TRAINING
884	97989	MATERIAL MOVING EQUIP OPS, NEC	130	140	10	7.7	20	10	MODERATE-TERM ON-THE-JOB TRAINING
885	97999	TRANS, MAT MOVING EQUIP OPS, NEC	40	50	10	25.0	10	10	MODERATE-TERM ON-THE-JOB TRAINING
886	98000	HELPERS, LABORERS, HAND--EX AG	4,060	4,090	30	0.7	860		
887	98100	MECHANIC AND REPAIRER HELPERS	170	200	30	17.6	60		
888	98102	MECHANIC AND REPAIRER HELPERS, NEC	170	200	30	17.6	60	11	SHORT-TERM ON-THE-JOB TRAINING
889	98300	CONST TRADES, EXTRACTIVE--HELPERS	340	410	70	20.6	120		
891	98312	HELPERS--CARPENTERS AND RELATED	140	170	30	21.4	50	11	SHORT-TERM ON-THE-JOB TRAINING
892	98313	HELPERS--ELECT, POWERLINE INSTALL	60	60	0	0.0	20	11	SHORT-TERM ON-THE-JOB TRAINING
893	98314	HELPERS--PAINTERS AND RELATED	30	40	10	33.3	10	11	SHORT-TERM ON-THE-JOB TRAINING
894	98315	HELPERS--PLUMBERS AND RELATED	30	40	10	33.3	10	11	SHORT-TERM ON-THE-JOB TRAINING
895	98316	HELPERS--ROOFERS	50	60	10	20.0	20	11	SHORT-TERM ON-THE-JOB TRAINING
896	98319	HELPERS--CONSTRUCTION TRADES, NEC	30	40	10	33.3	10	11	SHORT-TERM ON-THE-JOB TRAINING
901	98700	FREIGHT, STOCK, MAT MOVERS, HAND	580	610	30	5.2	160		
903	98705	REFUSE COLLECTORS	200	230	30	15.0	60	11	SHORT-TERM ON-THE-JOB TRAINING
904	98799	FREIGHT, MATERIAL MOVERS-HAND, NEC	380	380	0	0.0	100	11	SHORT-TERM ON-THE-JOB TRAINING
905	98900	MISC HELPERS, LABORERS--HAND	2,970	2,870	-100	-3.4	520		
906	98902	HAND PACKERS AND PACKAGERS	690	710	20	2.9	120	11	SHORT-TERM ON-THE-JOB TRAINING
907	98905	VEHICLE WASHERS, EQUIP CLEANERS	190	210	20	10.5	40	11	SHORT-TERM ON-THE-JOB TRAINING

Table 6
Occupational Employment Projections (1)
1999 - 2006
SANTA CRUZ COUNTY

LINE #	CA OES CODE	OCCUPATION	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS	BLS TRAINING LEVEL	EDUCATION/EXPERIENCE
			1999(2)	2006					
908	98999	MISC HELPERS, LABORERS--HAND, NEC	2,090	1,950	-140	-6.7	360	11	SHORT-TERM ON-THE-JOB TRAINING
909		OCCUPATIONS NOT CLASSIFIED	90	90	0	0.0	0	12	NOT CLASSIFIED

(1) Employment and projections contained in these tables are considered estimates. See introduction for an explanation of data limitations.

(2) March 2000 Benchmark

Table 7
Occupations With The Most Openings (1)
(Growth plus Separations)
1999 - 2006
SANTA CRUZ COUNTY

CA OES CODE	OCCUPATION	NUMBER OF JOB OPENINGS	BLS TRAINING LEVEL	EDUCATION / EXPERIENCE
49011	SALESPERSONS, RETAIL	1,380	11	SHORT-TERM ON-THE-JOB TRAINING
49023	CASHIERS	1,180	11	SHORT-TERM ON-THE-JOB TRAINING
65008	WAITERS AND WAITRESSES	1,000	11	SHORT-TERM ON-THE-JOB TRAINING
55347	GENERAL OFFICE CLERKS	810	11	SHORT-TERM ON-THE-JOB TRAINING
65041	COMBINED FOOD PREP AND SERVICE	630	11	SHORT-TERM ON-THE-JOB TRAINING
19005	GENERAL MANAGERS, TOP EXECUTIVE	600	04	WORK EXPERIENCE, PLUS A BACHELOR'S OR HIGHER
31308	TEACHERS--SECONDARY SCHOOL	540	05	BACHELOR'S DEGREE
31305	TEACHERS--ELEMENTARY SCHOOL	500	05	BACHELOR'S DEGREE
65038	FOOD PREPARATION WORKERS	500	11	SHORT-TERM ON-THE-JOB TRAINING
79041	LABORERS, LANDSCAPING/GROUNDSKEEPING	430	11	SHORT-TERM ON-THE-JOB TRAINING
87102	CARPENTERS	350	09	LONG-TERM ON-THE-JOB TRAINING
63047	GUARDS AND WATCH GUARDS	330	11	SHORT-TERM ON-THE-JOB TRAINING
67005	JANITORS, CLEANERS--EXCEPT MAID	320	11	SHORT-TERM ON-THE-JOB TRAINING
49017	COUNTER AND RENTAL CLERKS	300	11	SHORT-TERM ON-THE-JOB TRAINING
22127	COMPUTER ENGINEERS	280	05	BACHELOR'S DEGREE
53905	TEACHER AIDES & EDUC ASSTS, CLERICAL	270	11	SHORT-TERM ON-THE-JOB TRAINING
65017	COUNTER ATTENDANTS--FOOD	270	11	SHORT-TERM ON-THE-JOB TRAINING
55108	SECRETARIES, GENERAL	260	07	POST-SECONDARY VOCATIONAL EDUCATION
65026	COOKS--RESTAURANT	250	09	LONG-TERM ON-THE-JOB TRAINING
55305	RECEPTIONISTS, INFORMATION CLERKS	240	11	SHORT-TERM ON-THE-JOB TRAINING
55338	BOOKKEEPING, ACCOUNTING CLERKS	230	10	MODERATE-TERM ON-THE-JOB TRAINING
32502	REGISTERED NURSES	220	06	ASSOCIATE DEGREE
25104	COMPUTER SUPPORT SPECIALISTS	210	05	BACHELOR'S DEGREE
31521	TEACHER AIDES, PARAPROFESSIONAL	210	06	ASSOCIATE DEGREE
85132	MAINT REPAIRERS, GENERAL UTILITY	210	09	LONG-TERM ON-THE-JOB TRAINING
27311	RECREATION WORKERS	200	05	BACHELOR'S DEGREE
67002	MAIDS AND HOUSEKEEPING CLEANERS	200	11	SHORT-TERM ON-THE-JOB TRAINING
97105	TRUCK DRIVERS, LIGHT	200	11	SHORT-TERM ON-THE-JOB TRAINING
63014	POLICE PATROL OFFICERS	190	09	LONG-TERM ON-THE-JOB TRAINING
97102	TRUCK DRIVERS, HEAVY	180	11	SHORT-TERM ON-THE-JOB TRAINING

Table 7
Occupations With The Most Openings (1)
(Growth plus Separations)
1999 - 2006
SANTA CRUZ COUNTY

CA OES CODE	OCCUPATION	NUMBER OF JOB OPENINGS	BLS TRAINING LEVEL	EDUCATION / EXPERIENCE
31311	TEACHERS--SPECIAL EDUCATION	170	05	BACHELOR'S DEGREE
53102	TELLERS	170	11	SHORT-TERM ON-THE-JOB TRAINING
85302	AUTOMOTIVE MECHANICS	170	09	LONG-TERM ON-THE-JOB TRAINING
58023	STOCK CLERKS--STOCKROOM, WAREHOUSE	160	11	SHORT-TERM ON-THE-JOB TRAINING
68038	CHILD CARE WORKERS	160	11	SHORT-TERM ON-THE-JOB TRAINING
15005	EDUCATION ADMINISTRATORS	140	04	WORK EXPERIENCE, PLUS A BACHELOR'S OR HIGHER
27307	RESIDENTIAL COUNSELORS	140	05	BACHELOR'S DEGREE
49008	SALES REPS, NON-SCIENTIFIC EX RETAIL	140	10	MODERATE-TERM ON-THE-JOB TRAINING
98902	HAND PACKERS AND PACKAGERS	140	11	SHORT-TERM ON-THE-JOB TRAINING
95002	WATER TREATMENT PLANT OPERATORS	130	09	LONG-TERM ON-THE-JOB TRAINING
25102	SYSTEMS ANALYSTS--ELEC DATA PROCESSING	120	05	BACHELOR'S DEGREE
49021	STOCK CLERKS--SALES FLOOR	120	11	SHORT-TERM ON-THE-JOB TRAINING
65014	DINING RM ATTENDANTS, BAR HELPERS	120	11	SHORT-TERM ON-THE-JOB TRAINING
65032	COOKS--SPECIALTY FAST FOOD	120	11	SHORT-TERM ON-THE-JOB TRAINING
27308	HUMAN SERVICES WORKERS	110	10	MODERATE-TERM ON-THE-JOB TRAINING
31303	TEACHERS, PRESCHOOL	110	05	BACHELOR'S DEGREE
65005	BARTENDERS	110	11	SHORT-TERM ON-THE-JOB TRAINING
13017	ENGINEER, MATH, AND NAT SCI MANAGER	100	04	WORK EXPERIENCE, PLUS A BACHELOR'S OR HIGHER
31321	INSTRUCTORS AND COACHES--SPORTS	100	10	MODERATE-TERM ON-THE-JOB TRAINING
57305	POSTAL MAIL CARRIERS	100	11	SHORT-TERM ON-THE-JOB TRAINING
TOTAL OF THESE OCCUPATIONS		15,120		

(1) Excludes not elsewhere classified (NEC) categories.

Table 8
Occupations With Projected Declines (1)
1999 - 2006
SANTA CRUZ COUNTY

CA OES CODE	OCCUPATION	ANNUAL AVERAGES		NUMBER OF JOB DECLINES	OPENINGS DUE TO SEPARATIONS	BLS TRAINING LEVEL	EDUCATION / EXPERIENCE
		1999(2)	2006				
22126	ELECT AND ELECTRONIC ENGINEERS	560	470	-90	80	05	BACHELOR'S DEGREE
93935	CANNERY WORKERS	380	320	-60	60	11	SHORT-TERM ON-THE-JOB TRAINING
83002	INSPECTORS, TESTERS, & GRADERS, PRECISION	210	170	-40	30	08	WORK EXPERIENCE
55307	TYPISTS, INCLUDING WORD PROCESSING	240	210	-30	30	10	MODERATE-TERM ON-THE-JOB TRAINING
57108	CENTRAL OFFICE OPERATORS	150	120	-30	20	10	MODERATE-TERM ON-THE-JOB TRAINING
93905	ELECTRICAL, ELECTRONIC ASSEMBLERS	110	80	-30	10	11	SHORT-TERM ON-THE-JOB TRAINING
92974	PACKAGING, FILLING MACH OPS, TENDERS	410	390	-20	70	10	MODERATE-TERM ON-THE-JOB TRAINING
15014	INDUSTRIAL PRODUCTION MANAGERS	140	120	-20	20	05	BACHELOR'S DEGREE
65005	BARTENDERS	390	380	-10	120	11	SHORT-TERM ON-THE-JOB TRAINING
58028	TRAFFIC, SHIPPING, RECEIVING CLERKS	700	690	-10	80	11	SHORT-TERM ON-THE-JOB TRAINING
49014	SALESPERSONS--PARTS	330	320	-10	70	10	MODERATE-TERM ON-THE-JOB TRAINING
32505	LICENSED VOCATIONAL NURSES	400	390	-10	60	07	POST-SECONDARY VOCATIONAL EDUCATION
79011	GRADERS, SORTERS--AG PRODUCTS	360	350	-10	60	11	SHORT-TERM ON-THE-JOB TRAINING
55323	ORDER CLERKS--MATERIALS, SERVICE	280	270	-10	50	11	SHORT-TERM ON-THE-JOB TRAINING
22505	ELECT, ELECTRONIC ENGINEERING TECHS	300	290	-10	40	06	ASSOCIATE DEGREE
81008	FIRST-LINE SUP/MGR-PRODUCTION	220	210	-10	40	08	WORK EXPERIENCE
65023	BUTCHERS AND MEAT CUTTERS	170	160	-10	30	09	LONG-TERM ON-THE-JOB TRAINING
89108	MACHINISTS	130	120	-10	20	09	LONG-TERM ON-THE-JOB TRAINING
97805	SERVICE STATION ATTENDANTS	70	60	-10	20	11	SHORT-TERM ON-THE-JOB TRAINING
32514	OPTICIANS--DISPENSING, MEASURING	80	70	-10	10	09	LONG-TERM ON-THE-JOB TRAINING
49002	SALES ENGINEERS	90	80	-10	10	05	BACHELOR'S DEGREE
55105	SECRETARIES, MEDICAL	80	70	-10	10	07	POST-SECONDARY VOCATIONAL EDUCATION
56011	COMPUTER OPS--EX PERIPHERAL EQUIPMENT	70	60	-10	10	10	MODERATE-TERM ON-THE-JOB TRAINING
83005	PROD INSPECTORS, TESTERS, & GRADER	90	80	-10	10	08	WORK EXPERIENCE
85726	STATION INSTALLERS--TELEPHONE	40	30	-10	10	07	POST-SECONDARY VOCATIONAL EDUCATION
91905	PLASTIC MOLDING, CASTING MACHINE OPS	70	60	-10	10	10	MODERATE-TERM ON-THE-JOB TRAINING
TOTAL OF THESE OCCUPATIONS		6,070	5,570	-500	980		

(1) Excludes not elsewhere classified (NEC) categories.

(2) March 2000 Benchmark

Appendix

Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
ABLE SEAMEN	854	97514
ACCOUNTANTS AND AUDITORS	30	21114
ACCOUNTANTS, AUDIT, FINANCE SPECIALISTS	25	21100
ACTUARIES	114	25313
ADJUDICATORS, JUDICIAL REVIEWERS	137	28105
ADJUSTMENT CLERKS	309	53123
ADMINISTRATIVE SERVICES MANAGERS	7	13014
ADVERTISING CLERKS	333	53908
AERONAUT, ASTRONAUTICAL ENGINEERS	53	22102
AGRICULTURE, FORESTRY, FISHING-NEC	489	79999
AGRICULTURAL SCIENCES TEACHERS, POSTSECONDARY	150	31201
AGRICULTURAL AND FOOD SCIENTISTS	91	24305
AGRICULTURAL ENGINEERS	60	22123
AGRICULTURAL, FORESTRY, FISHING	466	70000
AIR DISPATCHERS, AIR TRAFFIC CONTROLLER	267	39002
AIR HAMMER OPERATORS	596	87702
AIR TRANSPORTATION WORKERS	857	97700
AIRCRAFT ASSEMBLERS-PRECISION	791	93102
AIRCRAFT ENGINE SPECIALISTS	525	85326
AIRCRAFT MECHANICS	524	85323
AIRCRAFT PILOTS, FLIGHT ENGINEERS	858	97702
AMBULANCE DRIVERS & ATTENDANTS, EX EMER MED TECHS	440	66023
AMUSEMENT, RECREATION ATTENDANTS	454	68014
ANIMAL BREEDERS	479	79015
ANIMAL CARETAKERS-EXCEPT FARM	481	79017
ANIMAL TRAINERS	480	79016
ANNOUNCERS-EX RADIO, TELEVISION	252	34021
ANNOUNCERS-RADIO AND TELEVISION	251	34017
ANTHRO & SOCIOLOGY TEACHERS, POSTSECONDARY	166	31231
APPRAISERS-REAL ESTATE	279	43011
ARCHITECTS AND SURVEYORS	68	22300
ARCHITECTS-EX LANDSCAPE, MARINE	69	22302
ARCHITECTURE TEACHERS, POSTSECONDARY	162	31223
AREA, ETHNIC, & CULT STUDIES TEACHERS, POSTSECONDARY	167	31232
ART, DRAMA, MUSIC TEACHERS, POSTSECONDARY	160	31218
ARTISTS AND RELATED WORKERS	257	34035
ASSEMB, FABRICATORS-EX MACH, ELECT, PRECISION	817	93956
ASSEMBLERS AND FABRICATORS-HAND WORKING	789	93000
ASSEMBLERS, NEC-PRECISION	797	93197
ASSEMBLERS, PRECISION	790	93100
ASSESSORS	48	21917
ATHLETES, COACHES, UMPIRERS, RELATED	265	34058
ATMOSPHERIC AND SPACE SCIENTISTS	86	24108
AUDIO-VISUAL SPECIALISTS	198	31508
AUTOMOTIVE BODY, RELATED REPAIRERS	518	85305
AUTOMOTIVE MECHANICS	517	85302
AUXILIARY EQUIPMENT OPERATORS-POWER	827	95023
BAGGAGE PORTERS AND BELLHOPS	457	68023
BAILIFFS	406	63023
BAKERS-BREAD AND PASTRY	423	65021

Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
BAKERS--MANUFACTURING	672	89805
BANKING, SECURITY, FINANCE, CREDIT	301	53100
BARBERS	450	68002
BARTENDERS	418	65005
BICYCLE REPAIRERS	563	85951
BILL AND ACCOUNT COLLECTORS	321	53508
BILLING, COST, AND RATE CLERKS	355	55344
BILLING, POSTING, CALCULATING MACHINE OPERATORS	358	56002
BINDERY MACH SETTERS, SET-UP OPERATORS	743	92525
BINDERY MACHINE OPERATORS	748	92546
BIOLOGICAL SCIENTISTS	92	24308
BIOLOGICAL, AGRICULTURAL &, FOOD TECHS EX HEALTH	96	24502
BLASTERS AND EXPLOSIVES WORKERS	612	87905
BOILER OPS, TENDERS--LOW PRESSURE	770	92926
BOILERMAKERS	638	89135
BOOKBINDERS	668	89721
BOOKKEEPING, ACCOUNTING CLERKS	353	55338
BRATTICE BUILDERS	574	87121
BRICK MASONS	578	87302
BRIDGE, LOCK, LIGHTHOUSE TENDERS	860	97802
BROADCAST NEWS ANALYSTS	250	34014
BROADCAST TECHNICIANS	255	34028
BROKERAGE CLERKS	311	53128
BROKERS--REAL ESTATE	277	43005
BUDGET ANALYSTS	31	21117
BUS AND TRUCK MECHANICS	520	85311
BUS DRIVERS	836	97108
BUS DRIVERS--SCHOOL	837	97111
BUSINESS TEACHERS, POSTSECONDARY	174	31242
BUTCHERS AND MEAT CUTTERS	424	65023
CABINETMAKERS AND BENCH CARPENTERS	644	89311
CAMERA OPERATORS	663	89713
CAMERA OPS--TV AND MOTION PICTURE	254	34026
CAMERA, PHOTOGRAPHIC EQUIPMENT REPAIRERS	552	85914
CANNERY WORKERS	810	93935
CAPTAINS--WATER VESSEL	850	97502
CARDIOLOGY TECHNOLOGISTS	239	32925
CARPENTERS	569	87102
CARPENTERS AND RELATED WORKERS	568	87100
CARPET CUTTERS, DIAGRAMMERS, SEAMERS	809	93932
CARPET INSTALLERS	592	87602
CARPET, FLOOR INSTALLERS	591	87600
CASHIERS	293	49023
CEILING TILE INSTALLERS	570	87105
CEMENTING, GLUING MACHINE OPERATORS, TENDERS	780	92956
CENTRAL OFFICE AND PBX INSTALLERS	529	85502
CENTRAL OFFICE OPERATORS	370	57108
CHEMICAL TECHNICIANS & TECHNOLOGISTS--EX HEALTH	97	24505
CHEMICAL ENGINEERS	57	22114
CHEMICAL EQUIPMENT CONTROLLERS, OPERATORS	773	92935

Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
CHEMICAL EQUIPMENT TENDERS	774	92938
CHEMICAL PLANT, SYSTEM OPERATORS	822	95008
CHEMISTRY TEACHERS, POSTSECONDARY	152	31204
CHEMISTS, EXCEPT BIOCHEMISTS	85	24105
CHILD CARE WORKERS	462	68038
CHIROPRACTORS	209	32113
CHOKE SETTERS	471	73005
CIVIL ENGINEERING TECHNICIANS	74	22502
CIVIL ENGINEERS--INCLUDING TRAFFIC	59	22121
CLAIMS EXAMINERS--INSURANCE	49	21921
CLAIMS TAKERS--UNEMPLOYMENT BENEFITS	38	21502
CLEANING, BUILDING SERVICE--EX PRIVATE HOUSES	443	67000
CLEANING, BUILDING SERVICE--EX PRIVATE HOUSES, NEC	448	67099
CLEANING, PICKLING EQUIPMENT OPERATORS, TENDERS	781	92958
CLERGY	131	27502
CLERICAL & ADMINISTRATIVE SUPPORT WORKERS, NEC	391	59999
CLERICAL, ADMINISTRATIVE SUPPORT, NEC	390	59000
CLERICAL, ADMINISTRATIVE SUPPORT	298	50000
COIL WINDERS, TAPERS, FINISHERS	801	93908
COIN, VENDING MACHINE SERVICERS	562	85947
COMB MACHINE TOOL OPERATORS--METAL, PLASTIC	705	91508
COMB MACHINE TOOL SETTERS--METAL, PLASTIC	704	91505
COMBINED FOOD PREPARATION AND SERVICE	430	65041
COMM EQUIPMENT MECHANICS, INSTALLERS, & REPAIRERS	528	85500
COMM EQUIPMENT MECHANICS, INSTALLERS, & REPAIR, NEC	534	85599
COMM, TRANSPORTATION, UTILITIES OPERATIONS MGRS	16	15023
COMMUNICATION EQUIPMENT OPERATORS, NEC	372	57199
COMMUNICATION EQUIPMENT OPERATORS	367	57100
COMMUNICATIONS TEACHERS, POSTSECONDARY	157	31213
COMMUNICATIONS, MAIL DISTRIBUTION	366	57000
COMPLIANCE OFFICERS, ENFORCE INSPECT--EX CONSTRUCTION	46	21911
COMPUTER ENGINEERS	62	22127
COMPUTER OPERATORS--EX PERIPHERAL EQUIPMENT	361	56011
COMPUTER PROGRAMMER AIDES	107	25108
COMPUTER PROGRAMMERS	106	25105
COMPUTER SCIENCE TEACHERS, POSTSECONDARY	164	31226
COMPUTER SCIENTISTS AND RELATED	102	25100
COMPUTER SCIENTISTS, RELATED WORKERS, NEC	109	25199
COMPUTER SUPPORT SPECIALISTS	105	25104
COMPUTER, MATHEMATICAL, OPS RESEARCH, & RELATED	101	25000
CONCRETE AND TERRAZZO FINISHERS	581	87311
CONSTRUCTION AND BUILDING INSPECTORS	45	21908
CONSTRUCTION TRADES, EXTRACTIVE--HELPERS	889	98300
CONSTRUCTION, EXTRACTIVE--EX HELPERS, NEC	624	87999
CONSTRUCTION MANAGERS	14	15017
CONSTRUCTION TRADES	567	87000
CONSTRUCTION TRADES WORKERS, NEC	609	87899
CONSTRUCTION TRADES, NEC	601	87800
CONTINUOUS MINING MACHINE OPERATOR	620	87941
CONVEYOR OPERATORS AND TENDERS	881	97951

Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
COOKING MACHINE OPS,TENDERS-FOOD,TOBACCO	767	92917
COOKS--INSTITUTION OR CAFETERIA	426	65028
COOKS--RESTAURANT	425	65026
COOKS--SHORT ORDER	428	65035
COOKS--SPECIALTY FAST FOOD	427	65032
COOLING, FREEZING EQUIPMENT OPERATORS, TENDERS	771	92928
CORRECTION OFFICERS, JAILERS	404	63017
CORRECTIVE, MANUAL ARTS THERAPISTS	216	32311
CORRESPONDENCE CLERKS	346	55317
COST ESTIMATORS	43	21902
COUNTER AND RENTAL CLERKS	291	49017
COUNTER ATTENDANTS--FOOD	422	65017
COURT CLERKS	323	53702
CRANE AND TOWER OPERATORS	879	97944
CREDIT ANALYSTS	27	21105
CREDIT AUTHORIZERS	306	53114
CREDIT CHECKERS	307	53117
CRIMINAL INVESTIGATORS, FEDERAL	408	63028
CRIMINAL JUSTICE & LAW ENFORCEMENT TEACHERS,	176	31246
CROSSING GUARDS	413	63044
CRUSHING, MIXING MACHINE OPERATORS, TENDERS	783	92965
CURATORS, ARCHIVISTS, AND RELATED	199	31511
CUSTOM TAILORS AND SEWERS	649	89505
CUSTOMER SERVICE REPRESENTATIVES--UTILITIES	352	55335
CUTTING, FORMING, FABRICATING, PROCESS MACH SETTER	728	92197
CUTTING, FORMING, FABRICATING, PROCESS MACH OPS	729	92198
CUTTING & SLICING MACHINE SETTERS & SET-UP OPS	775	92941
CUTTERS AND TRIMMERS--HAND	807	93926
CUTTING & SLICING MACHINE OPERATORS & TENDERS	776	92944
DAIRY PROCESSING EQUIPMENT OPERATORS--INC SETTERS	772	92932
DANCERS AND CHOREOGRAPHERS	263	34053
DATA BASE ADMINISTRATORS	104	25103
DATA ENTRY KEYERS--EX COMPOSING	363	56017
DATA KEYERS--COMPOSING	364	56021
DATA PROCESSING EQUIPMENT REPAIRERS	537	85705
DEMONSTRATORS AND PROMOTERS	295	49034
DENTAL ASSISTANTS	433	66002
DENTAL HYGIENISTS	233	32908
DENTAL LABORATORY TECHNICIANS, PRECISION	682	89921
DENTISTS	206	32105
DERRICK OPERATORS--OIL, GAS EXTRACTION	615	87914
DESIGNERS, EX INTERIOR DESIGNERS	258	34038
DETAIL DESIGN DECORATORS, PAINTERS	679	89911
DETECTIVES, INVESTIGATORS--EX PUBLIC	410	63035
DIETETIC TECHNICIANS	229	32523
DIETITIANS AND NUTRITIONISTS	228	32521
DINING ROOM ATTENDANTS, BAR HELPERS	421	65014
DIRECTORS--RELIGIOUS ACTIVITIES, EDUC	132	27505
DIRECTORY ASSISTANCE OPERATORS	369	57105
DISPATCH--EX POLICE, FIRE, AMBULANCE	380	58005

Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
DISPATCH--POLICE, FIRE, AMBULANCE	379	58002
DRAFTERS	78	22514
DRAGLINE OPERATORS	873	97926
DREDGE OPERATORS, DIPPER TENDERS	874	97928
DRILLING MACHINE SETTER--METAL, PLASTIC	690	91108
DRIVER/SALES WORKERS	839	97117
DRYWALL INSTALLERS	571	87108
DUPLICATING MACHINE OPERATORS	359	56005
DYERS, PRECISION	654	89521
EARTH DRILLERS, EXCEPT OIL AND GAS	611	87902
ECONOMICS TEACHERS, POSTSECONDARY	168	31233
ECONOMISTS--INCL MARKET RESEARCH ANALYST	120	27102
EDP AND OFFICE MACHINE OCCUPATIONS	357	56000
EDUCATION ADMINISTRATORS	10	15005
EDUCATION TEACHERS, POSTSECONDARY	178	31252
ELECTRICAL INSTALLERS--TRANSPORTATION EQUIPMENT	545	85728
ELECTRICAL AND ELECTRONIC ENGINEERS	61	22126
ELECTRICAL EQUIPMENT MECHANICS, NEC	546	85799
ELECTRIC HOME APPLIANCE & POWER TOOL REPAIRERS	539	85711
ELECTRONIC HOME ENTERTAINMENT EQUIP REPAIRERS	538	85708
ELECTRIC METER INSTALLERS, REPAIRERS	551	85911
ELECTRIC MOTOR, AND RELATED REPAIRERS	540	85714
ELECTRICAL POWERLINE INSTALLERS	543	85723
ELECTRONICS REPAIRERS--COMMERCIAL & INDUSTRIAL	541	85717
ELECTRICAL & ELECTRONIC ENGINEERING TECHS & TECHNOS	75	22505
ELECTRICAL EQUIPMENT ASSEMBLERS--PRECISION	795	93114
ELECTRICAL, ELECTRONIC ASSEMBLERS	800	93905
ELECTRICIANS	576	87202
ELECTRICIANS AND RELATED WORKERS	575	87200
ELECTROCARDIOGRAPH TECHNICIANS	240	32926
ELECTROLYTIC PLATING, MACHINE OPERATORS	719	91921
ELECTROLYTIC PLATING, MACHINE SETTER	718	91917
ELECTROMECHANICAL EQUIPMENT ASSEMBLERS--PRECISION	794	93111
ELECTROMEDICAL, BIOMEDICAL EQUIPMENT REPAIRER	550	85908
ELECTRONEURODIAGNOSTIC TECHNOLOGISTS	238	32923
ELECTRONIC PAGINATION SYSTEM WORKERS	660	89707
ELECTRONIC SEMICONDUCTOR PROCESSOR	762	92902
ELEVATOR INSTALLERS AND REPAIRERS	558	85932
ELEVATOR OPERATORS	447	67011
EMBALMERS	271	39014
EMERGENCY MEDICAL TECHNICIANS	223	32508
EMPLOYMENT INTERVIEWERS--PRIVATE OR PUBLIC	40	21508
ENGINEER, MATH, AND NATURAL SCIENCE MANAGERS	8	13017
ENGINEERING TEACHERS, POSTSECONDARY	161	31222
ENGINEERING, RELATED TECHNICIANS	73	22500
ENGINEERING, RELATED TECHS & TECHNOS, NEC	81	22599
ENGINEERS	52	22100
ENGINEERS, ARCHITECTS, SURVEYORS	51	22000
ENGINEERS, NEC	67	22199
ENGLISH LANG & LIT TEACHERS, POSTSECONDARY	158	31214

Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
ENGRAVING, PRINTING WORKERS--HAND	815	93951
ESTIMATORS, DRAFTERS--UTILITIES	79	22517
ETCHERS, ENGRAVERS--PRECISION	636	89128
EXCAVATING, LOADING MACHINE OPERATORS	872	97923
EXTRACTIVE AND RELATED WORKERS	610	87900
EXTRACTIVE WORKERS--EX HELPERS, NEC	623	87989
EXTRUDING MACHINE OPS, TENDERS--SYNTHETIC/GLASS	753	92708
EXTRUDING MACHINE SETTERS--METAL, PLASTIC	698	91311
EXTRUDING, FORMING MACHINE OPERATORS, TENDERS	785	92971
EXTRUDING, FORMING, SETTERS & SET-UP OPERATORS	784	92968
FALLERS AND BUCKERS	470	73002
FARM AND HOME MANAGEMENT ADVISORS	193	31323
FARM EQUIPMENT MECHANICS	523	85321
FARM EQUIPMENT OPERATORS	482	79021
FARMWORKERS-FARM/RANCH ANIMALS	488	79858
FARMWORKERS-FOOD, FIBER CROPS	487	79856
FENCE ERECTORS	608	87817
FILE CLERKS	347	55321
FILM EDITORS	256	34032
FINANCIAL ANALYSTS, STATISTICAL	115	25315
FINANCIAL MANAGERS	3	13002
FINANCIAL SPECIALISTS, NEC	32	21199
FIRE FIGHTERS	401	63008
FIRE FIGHTING & PREVENTION SUPERVISORS	394	61002
FIRE INSPECTORS	399	63002
FIRST-LINE SUP/MGR SERVICE WORKERS, NEC	397	61099
FIRST-LINE SUP/MGR, CLERICAL, ADMINISTRATIVE SUPPORT	299	51000
FIRST-LINE SUP/MGR--AGRICULTURAL, FORESTRY, FISHING	467	72000
FIRST-LINE SUP/MGR-BLUE COLLAR	491	81000
FIRST-LINE SUP/MGR-BLUE COLLAR NEC	497	81099
FIRST-LINE SUP/MGR-CONSTRUCTION	493	81005
FIRST-LINE SUP/MGR-HELP, LABORERS	496	81017
FIRST-LINE SUP/MGR-MECHANICS, INSTALLERS, REPAIRERS	492	81002
FIRST-LINE SUP/MGR-PRODUCTION	494	81008
FIRST-LINE SUP/MGR--SALES	274	41000
FIRST-LINE SUP/MGR--SERVICE	393	61000
FIRST-LINE SUP/MGR-TRANSPORTATION	495	81011
FIRST-LINE SUPERVISORS - AGRICULTURE	468	72002
FISH AND GAME WARDENS	412	63041
FITTERS, STRUCTURAL METAL--PRECISION	793	93108
FLIGHT ATTENDANTS	458	68026
FLOOR LAYERS--EX CARPET, WOOD, TILES	593	87605
FLOOR SANDING MACHINE OPERATORS	594	87608
FOOD AND TOBACCO WORKERS, NEC	674	89899
FOOD BATCHMAKERS	673	89808
FOOD PREPARATION WORKERS	429	65038
FOOD SERVERS--OUTSIDE	420	65011
FOOD SERVICE AND LODGING MANAGERS	17	15026
FOOD SERVICE WORKERS, NEC	431	65099
FOOD WORKERS, PRECISION	670	89800

Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
FOOD, BEVERAGE PREPARATION AND SERVICE OCCS	416	65000
FOREIGN LANG & LITERATURE TEACHERS, POSTSECONDARY	159	31215
FOREST FIRE INSPECTORS, PREVENT SPECIALISTS	400	63005
FOREST, CONSERVATION WORKERS	476	79002
FORESTERS, CONSERVATION SCIENTISTS	90	24302
FORGING MACHINE SETTERS--METAL, PLASTIC	700	91317
FOUNDRY MOLD ASSEMBLY, SHAKEOUT	717	91914
FOUNDRY MOLD,CORE MAKERS,PRECISION	676	89902
FRAME WIRERS, CENTRAL OFFICE	530	85505
FREIGHT, MATERIAL MOVERS-HAND, NEC	904	98799
FREIGHT, STOCK, MATERIAL MOVERS, HAND	901	98700
FUNERAL ATTENDANTS	463	68041
FUNERAL DIRECTORS AND MORTICIANS	270	39011
FURNACE OPERATORS AND TENDERS	724	91935
FURNACE, KILN, KETTLE OPERATORS, TENDERS	769	92923
FURNITURE FINISHERS	645	89314
GAS APPLIANCE REPAIRERS	561	85944
GAS COMPRESSOR OPERATORS	871	97921
GAS PLANT OPERATORS	821	95005
GAS PUMPING STATION OPERATORS	870	97917
GAUGERS	825	95017
GEM AND DIAMOND WORKERS	684	89926
GENERAL MANAGERS, TOP EXECUTIVES	21	19005
GENERAL OFFICE CLERKS	356	55347
GEOGRAPHY TEACHERS, POSTSECONDARY	169	31234
GEOLOGIST, GEOPHYSICISTS, OCEANOGRAPHERS	87	24111
GLAZIERS	606	87811
GLAZIERS, MANUFACTURING	802	93911
GRADER, DOZER, SCRAPER OPERATORS	877	97938
GRADERS, SORTERS--AGRICULTURAL PRODUCTS	478	79011
GRADUATE ASSISTANTS, TEACHING	149	31117
GRINDING MACHINE SETTER--METAL,PLASTIC	692	91114
GRINDING, POLISHING WORKERS--HAND	816	93953
GUARDS AND WATCH GUARDS	414	63047
GUIDES	455	68017
HAIRDRESSERS, HAIRSTYLISTS	451	68005
HAND COMPOSITORS AND TYPESETTERS	657	89702
HAND PACKERS AND PACKAGERS	906	98902
HAND WORKERS, NEC	818	93999
HAND WORKERS--JEWELRY, PRECISION	635	89126
HARD TILE SETTERS	580	87308
HAZARDOUS MATERIALS REMOVAL WORKERS	603	87803
HEAD SAWYERS	732	92305
HEALTH ASSESSMENT & TREATMENT TEACHERS, POSTSEC	156	31212
HEALTH CARE MAINTENANCE, TREATING	220	32500
HEALTH CARE PROFESSIONALS, PARAPROFS, NEC	244	32999
HEALTH DIAGNOSING, TREATING	204	32100
HEALTH DIAGNOSING, TREATING, NEC	211	32199
HEALTH DIAGNOSTICS TEACHERS, POSTSECONDARY	155	31211
HEALTH PRACTITIONERS, TECHS, RELATED	203	32000

Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
HEALTH SERVICE WORKERS, NEC	442	66099
HEALTH SERVICE, RELATED OCCS	432	66000
HEAT TREATING MACHINE OPS, TENDERS	723	91932
HEATERS, METAL & PLASTIC	725	91938
HEATING EQUIP SETTERS-METAL, PLASTIC	722	91928
HEATING, AC, REFRIGERATION MECHANICS	548	85902
HELPERS, LABORERS, HAND--EX AGRICULTURE & FORESTRY	886	98000
HELPERS--BRICK,STONE MASONS	890	98311
HELPERS--CARPENTERS AND RELATED	891	98312
HELPERS--CONSTRUCTION TRADES, NEC	896	98319
HELPERS--CONST TRADES & EXTRACT WORKERS	898	98399
HELPERS--ELECTRICIANS, POWERLINE INSTALLERS	892	98313
HELPERS--EXTRACTIVE WORKERS	897	98323
HELPERS--PAINTERS AND RELATED	893	98314
HELPERS--PLUMBERS AND RELATED	894	98315
HELPERS--ROOFERS	895	98316
HIGHWAY MAINTENANCE WORKERS	599	87711
HISTORY TEACHERS, POSTSECONDARY	170	31235
HOIST AND WINCH OPERATORS	878	97941
HOME ECONOMICS TEACHERS, POSTSECONDARY	182	31262
HOME HEALTH CARE WORKERS	436	66011
HOSTS, HOSTESSES--RESTAURANTS	417	65002
HOTEL DESK CLERKS	329	53808
HOUSEKEEPING SUPERVISORS	396	61008
HUMAN SERVICES WORKERS	128	27308
INDUSTRIAL ENGINEERING TECHS & TECHNOS	76	22508
INDUST ENGINEERS--EXCEPT SAFETY	63	22128
INDUSTRIAL PRODUCTION MANAGERS	13	15014
INDUSTRIAL TRUCK,TRACTOR OPERATORS	880	97947
INDUSTRY SPECIFIC CLERICAL, ADMINISTRATIVE SUPPORT	300	53000
INSURANCE ADJUSTERS, EXAMINERS, INVESTIGATORS	313	53302
INSPECTORS, RELATED OCCUPATIONS	498	83000
INSPECTORS, TESTERS, RELATED, NEC	502	83099
INSPECTORS,TESTERS,& GRADERS,PRECISION	499	83002
INSTALLER & REPAIRER, MOBILE HOME	560	85938
INSTRUCTIONAL COORDINATORS	201	31517
INSTRUCTORS AND COACHES--SPORTS	192	31321
INSTRUCTORS--NON-VOCATIONAL EDUCATION	191	31317
INSTRUMENT MAKERS, PRECISION	628	89105
INSTRUMENT REPAIRERS, PRECISION	549	85905
INSULATION WORKERS	602	87802
INSURANCE APPRAISERS--AUTO DAMAGE	314	53305
INSURANCE CLAIMS CLERKS	316	53311
INSURANCE EXAMINING CLERKS	315	53308
INSURANCE POLICY PROCESSING CLERKS	317	53314
INSURANCE WORKERS	312	53300
INTERIOR DESIGNERS	259	34041
INTERVIEW CLERKS--EX PERSONNEL, WELFARE	351	55332
INVESTIGATIVE, RELATED, EX INSURANCE	318	53500
INVESTIGATORS--CLERICAL	320	53505

Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
JANITORS, CLEANERS--EXCEPT MAIDS	445	67005
JEWELERS AND SILVERSMITHS	634	89123
JOB PRINTERS	658	89705
JUDGES AND MAGISTRATES	136	28102
LABORERS, LANDSCAPING/GROUNDSKEEPING	485	79041
LANDSCAPE ARCHITECTS	71	22308
LATHE MACHINE SETTERS--METAL, PLASTIC	689	91105
LATHERS	573	87114
LAW AND RELATED OCCUPATIONS	134	28000
LAW CLERKS	140	28302
LAW TEACHERS, POSTSECONDARY	175	31244
LAWN SERVICE MANAGER	19	15032
LAWYERS	138	28108
LAWYERS AND RELATED WORKERS	135	28100
LAYOUT WORKERS--METAL, PRECISION	632	89117
LECTURERS	147	31111
LEGAL ASSISTANTS, TECHNICIANS, EX CLERICAL	139	28300
LEGAL ASSISTANTS, TECHNICIANS--EX CLERICAL, NEC	144	28399
LETTERPRESS SETTERS, SET-UP OPERATORS	739	92515
LIBRARIANS, ARCHIVISTS AND RELATED	195	31500
LIBRARIANS--PROFESSIONAL	196	31502
LIBRARY ASSISTANTS & BOOKMOBILE DRIVERS	331	53902
LIBRARY SCIENCE TEACHERS, POSTSECONDARY	180	31256
LICENSE CLERKS	325	53708
LICENSED VOCATIONAL NURSES	222	32505
LIFE SCIENCES TEACHERS, POSTSECONDARY	151	31202
LIFE SCIENTISTS	89	24300
LIFE SCIENTISTS, NEC	94	24399
LITHOGRAPHY & PHOTOENGRAVING WORKERS, NEC	667	89719
LITHOGRAPHY & PHOTOENGRAVING, PRECISION	661	89710
LAUNDRY, DRYCLEAN MACH OPS--EX PRESS	759	92726
LOADING MACHINE OPERATORS--MINING	875	97932
LOAN AND CREDIT CLERKS	308	53121
LOAN INTERVIEWERS	305	53111
LOAN OFFICERS AND COUNSELORS	28	21108
LOCKSMITHS AND SAFE REPAIRERS	555	85923
LOCOMOTIVE ENGINEERS	843	97305
LOCOMOTIVE FIRERS	845	97311
LODGING AND TRAVEL WORKERS	326	53800
LOG GRADERS AND SCALERS	477	79008
LOG HANDLING EQUIPMENT OPERATORS	472	73008
LOGGING TRACTOR OPERATORS	473	73011
LONGSHORE EQUIPMENT OPERATORS	865	97902
MACHINE BUILDERS & OTHER PRECISION MACH ASSEMBLER	792	93105
MACHINE FORMING OPS, TENDERS--METAL, PLASTIC	701	91321
MACHINE FORMING SETTERS--METAL, PLASTIC	694	91300
MACHINE SETTER, SET-UP, OP--EX METAL, PLASTIC	761	92900
MACHINE SETTERS, SET-UP OPERATORS, & TENDERS	686	91000
MACHINE TOOL CUTTING OPS--METAL, PLASTIC	693	91117
MACHINE TOOL CUTTING--METAL, PLASTIC	687	91100

Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
MACHINE TOOL SETTERS, OPS--METAL, PLASTIC	702	91500
MACHINE ASSEMBLERS	799	93902
MACHINE FEEDERS AND OFFBEARERS	899	98500
MACHINE FEEDERS AND OFFBEARERS, NEC	900	98502
MACHINE OPERATORS AND TENDERS, NEC	788	92998
MACHINE SETTERS & SET-UP OPERATORS, NEC	787	92997
MACHINERY AND RELATED MECHANICS	504	85100
MACHINERY MAINT MECHANICS, NEC	511	85119
MACHINERY MAINTENANCE MECHANICS	505	85110
MACHINERY MAINTENANCE WORKERS	514	85128
MACHINISTS	629	89108
MAIDS AND HOUSEKEEPING CLEANERS	444	67002
MAIL CLERKS-EX MAIL MACHINE OPERATORS, POSTAL	374	57302
MAIL MACHINE OPERATORS--PREP AND HANDLING	360	56008
MAIL, MESSAGE DISTRIBUTION WORKERS	373	57300
MAIN LINE STATION ENGINEERS	869	97914
MAINTENANCE MECHANICS--MARINE EQUIP	508	85116
MAINTENANCE MECHANICS--WATER, POWER	510	85118
MAINTENANCE REPAIRERS, GENERAL UTILITY	515	85132
MAINTENANCE MECHANICS--SEWING MACHINE	507	85113
MAINTENANCE MECHANICS--TEXTILE	506	85112
MANAGEMENT ANALYSTS	44	21905
MANAGEMENT SUPPORT OCCUPATIONS	24	21000
MANAGEMENT SUPPORT WORKERS, NEC	50	21999
MANAGERS AND ADMINISTRATORS, NEC	22	19999
MANICURISTS	452	68008
MARINE ARCHITECTS	70	22305
MARINE ENGINEERS	66	22138
MARKING CLERKS	385	58021
MASONS AND RELATED WORKERS	577	87300
MATERIAL MOVEMENT EQUIPMENT OPERATORS	864	97900
MATERIAL MOVING EQUIP OPERATORS, NEC	884	97989
MATERIAL RECORDING, DISPATCHING	378	58000
MATERIAL RECORDING, RELATED, NEC	389	58099
MATES--SHIP, BOAT, AND BARGE	851	97505
MATH SCIENTISTS AND RELATED	110	25300
MATHEMATICAL SCIENCES TEACHERS, POSTSECONDARY	163	31224
MATHEMATICAL SCIENTISTS	112	25310
MATHEMATICAL SCIENTISTS, NEC	116	25319
MATHEMATICAL TECHNICIANS	117	25323
MEAT, POULTRY, FISH CUTTERS--HAND	811	93938
MECHANICAL CONTROL, VALVE INSTALLERS	557	85928
MECHANIC AND REPAIRER HELPERS	887	98100
MECHANIC AND REPAIRER HELPERS, NEC	888	98102
MECHANICAL ENGINEERING TECHNICIANS	77	22511
MECHANICAL ENGINEERS	65	22135
MECHANICS, INSTALLERS, REPAIRERS	503	85000
MECHANICS, NEC	527	85399
MECHANICS, INSTALLERS, REPAIRERS, NEC	566	85999
MEDICAL, CLINICAL LAB ASSISTANTS	232	32905

Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
MEDICAL, CLINICAL LAB TECHNOLOGISTS	231	32902
MEDICAL APPLIANCE MAKERS	683	89923
MEDICAL ASSISTANTS	434	66005
MEDICAL RECORDS TECHNICIANS	234	32911
MEDICAL SCIENTISTS	93	24311
MEDICINE, HEALTH SERVICES MANAGERS	11	15008
MENDERS, GARMENTS AND LINENS	565	85956
MERCHANDISE DISPLAYERS, WINDOW TRIMMERS	260	34044
MERCHANDISE, PRODUCTS AND OTHER SALES	285	49000
MESSENGERS	377	57311
METAL FABRICATING MACH SETTERS, OPS	706	91700
METAL FABRICATOR, STRUCTURAL METAL PRODUCTS	711	91714
METAL MOLDING MACHINE OPERATORS AND TENDERS	716	91911
METAL MOLDING, MACHINE SETTER, SET-UP	715	91908
METAL POURERS, CASTERS--BASIC	812	93941
METAL WORKERS, NEC--PRECISION	639	89199
METAL WORKERS, PRECISION	626	89100
METAL, PLASTIC MACHINE SETTERS, OPS NEC	727	92100
METAL, PLASTIC PROCESS MACHINE SETTERS	712	91900
METALLURGISTS, RELATED ENGINEERS	54	22105
METER READERS--UTILITIES	383	58014
MANAGERS AND ADMINISTRATIVE OCCUPATIONS	2	10000
MILLING MACHINE SETTERS--METAL, PLASTIC	691	91111
MILLWRIGHTS	512	85123
MINE CUTTING, CHANNELING MACHINE OPERATORS	621	87943
MINING ENGINEERS--INCL MINE SAFETY	55	22108
MINING MACHINE OPERATORS	619	87940
MINING MACHINE OPERATORS, NEC	622	87949
MINING, OIL AND GAS, RELATED MANAGERS	15	15021
MISC AGRICULTURE, FORESTRY, FISHING	475	79000
MISC HELPERS, LABORERS--HAND	905	98900
MISC HELPERS, LABORERS--HAND, NEC	908	98999
MISC INDUSTRY SPECIFIC CLERICAL	330	53900
MISC MECHANICS, INSTALLERS, REPAIRERS	547	85900
MISC METAL, PLASTIC MACHINE SETTERS OPERATORS	726	91999
MISC PERSONAL SERVICE OCCUPATIONS	449	68000
MISC PROFESSIONALS, PARAPROFS, TECHNICAL	266	39000
MISC SECRETARIAL, GENERAL OFFICE OCCS	341	55300
MISC SERVICE WORKERS	464	69000
MISC TRANSPORTATION WORKERS	859	97800
MARKETING, ADVERTISING, PUBLIC-RELATIONS MANAGERS	6	13011
MOBILE EQUIPMENT MECHANICS, REPAIRERS	516	85300
MOBILE HEAVY EQUIP MECHANICS--EX ENGINE	521	85314
MODELS	296	49036
MOLDERS AND CASTERS--HAND	813	93944
MOLDERS, SHAPERS--EX JEWELRY	677	89905
MOTION PICTURE PROJECTIONISTS	763	92905
MOTOR VEHICLE OPERATORS	833	97100
MOTOR VEHICLE OPERATORS, NEC	840	97199
MOTORBOAT OPERATORS	853	97511

Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
MOTORCYCLE REPAIRERS	519	85308
MUNICIPAL CLERKS	324	53705
MUNICIPAL WORKERS	322	53700
MUSIC DIRECTORS, SINGERS, COMPOSERS	261	34047
MUSICAL INSTRUMENT REPAIRERS AND TUNERS	554	85921
MUSICIANS--INSTRUMENTAL	262	34051
NATURAL SCIENTISTS AND RELATED WORKERS	82	24000
NUMERICAL TOOL, PROCESS PROGRAMMERS	108	25111
NEW ACCOUNTS CLERKS	303	53105
NONELECTROLYTIC PLATING & COATING MACHINE-OPS	721	91926
NONELECTROLYTIC PLATING MACHINE-SETTERS & SET-UP	720	91923
NUCLEAR ENGINEERS	58	22117
NUCLEAR MEDICINE TECHNOLOGISTS	236	32914
NUCLEAR TECHNICIANS	98	24508
NUMERICAL MACHINE TOOL OPS--METAL, PLASTIC	703	91502
NURSE AIDES, ORDERLIES, ATTENDANTS	435	66008
NURSERY & GREENHOUSE MANAGER	18	15031
NURSING INSTRUCTORS, POSTSECONDARY	148	31114
OCCUPATIONAL THERAPISTS	214	32305
OCCUPATIONAL THERAPY ASSISTANTS	439	66021
OCCUPATIONS NOT CLASSIFIED	909	
OFFICE MACHINE, CASH REGISTER SERVICERS	556	85926
OFFICE MACHINE OPERATORS, NEC	365	56099
OFFSET LITHOGRAPHIC PRESS SETTERS	738	92512
OIL PUMPERS--EXCEPT WELL HEAD	867	97908
OPERATING ENGINEERS	883	97956
OPERATIONS & SYSTEMS RESEARCHERS--EX COMPUTER	111	25302
OPTICAL GOODS WORKERS, PRECISION	681	89917
OPTICIANS--DISPENSING, MEASURING	225	32514
OPTOMETRISTS	207	32108
ORDER CLERKS--MATERIALS, SERVICE	348	55323
ORDER FILLERS--WHOLESALE & RETAIL SALE	387	58026
ORDINARY SEAMEN AND MARINE OILERS	855	97517
OTHER SOCIAL SCIENCE RELATED WORKERS	124	27300
OTHER ELECTRICAL EQUIPMENT MECHANICS	535	85700
OTHER HAND WORKERS	798	93900
OTHER HEALTH PROFESSIONALS, PARAPROFS	230	32900
OTHER MANAGEMENT SUPPORT WORKERS	42	21900
OTHER PRECISION WORKERS	675	89900
OTHER PROFESSIONALS, PARAPROF, TECHNICAL	272	39999
OTHER TEACHERS AND INSTRUCTORS	184	31300
PACKAGING, FILLING MACHINE OPERATORS, TENDERS	786	92974
PAINT, COAT & SPRAY MACHINE SETTERS	778	92951
PAINTERS AND RELATED WORKERS	584	87400
PAINTERS, PAPERHANGERS--CONSTRUCTION	585	87402
PAINTERS, TRANSPORTATION EQUIPMENT	777	92947
PAINTING, COATING, DECORATING--HAND	814	93947
PAINTING, RELATED MACHINE OPERATORS, TENDERS	779	92953
PAPER GOODS MACHINE SETTERS, SET-UP OPERATORS	766	92914
PARALEGAL PERSONNEL	141	28305

Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
PARKING ENFORCEMENT OFFICERS	405	63021
PARKING LOT ATTENDANTS	862	97808
PARKS,REC,LEISURE,FITNESS STUDIES TEACHERS, POST	181	31258
PASTE UP WORKERS	659	89706
PATTERN AND MODEL MAKERS--METAL	631	89114
PATTERN AND MODEL MAKERS--WOOD	641	89302
PATTERN MARKERS--WOOD	642	89305
PATTERNMAKERS AND LAYOUT WORKERS	648	89502
PATTERNMAKERS, MODEL MAKERS, LAYOUT	678	89908
PAVING, TAMPING-EQUIPMENT OPERATORS	598	87708
PAYROLL AND TIMEKEEPING CLERKS	354	55341
PERIPHERAL EDP EQUIPMENT OPERATORS	362	56014
PERSONNEL CLERKS--EX PAYROLL	345	55314
PERSONNEL, TRAINING, LABOR-RELATIONS MANAGERS	4	13005
PERSONNEL, TRAINING, LABOR-RELATIONS SPECIALISTS	37	21500
PERSONNEL, TRAINING, LABOR-RELATIONS SPECIALISTS, NEC	41	21511
PERSONAL AND HOME CARE AIDES	461	68035
PEST CONTROLLERS AND ASSISTANTS	446	67008
PETROLEUM REFINERY, CONTROL PANEL OPERATORS	824	95014
PETROLEUM ENGINEERS	56	22111
PETROLEUM PUMP SYSTEM OPERATORS	823	95011
PETROLEUM TECHNICIANS	99	24511
PHARMACISTS	226	32517
PHARMACY AIDES	441	66026
PHARMACY TECHNICIANS	227	32518
PHILOSOPHY & RELIGION TEACHERS, POSTSECONDARY	179	31254
PHOTOENGRAVERS	662	89712
PHOTOENGRAVING, LITHOGRAPHING MACHINE OPERATORS	747	92545
PHOTOGRAPHERS	253	34023
PHOTOGRAPHIC PROCESSING MACHINE OPS & TENDERS	764	92908
PHOTOGRAPHIC PROCESS WORKER,PRECISION	680	89914
PHYSICAL SCIENCE TEACHERS, POSTSECONDARY	154	31209
PHYSICAL SCIENTISTS	83	24100
PHYSICAL SCIENTISTS, NEC	88	24199
PHYSICAL THERAPISTS	215	32308
PHYSICAL THERAPY ASSISTANTS & AIDES	438	66017
PHYSICAL, LIFE SCIENCE TECHNICIANS	95	24500
PHYSICAL, LIFE SCIENCE TECHNICIANS, NEC	100	24599
PHYSICIANS AND SURGEONS	205	32102
PHYSICIAN'S ASSISTANTS	224	32511
PHYSICISTS AND ASTRONOMERS	84	24102
PHYSICS TEACHERS, POSTSECONDARY	153	31206
PILE DRIVING OPERATORS	597	87705
PILOTS--SHIP	852	97508
PIPELAYERS	589	87508
PIPELAYING FITTERS	588	87505
PLANT AND SYSTEM OCCUPATIONS	819	95000
PLANT AND SYSTEM OPERATORS, NEC	831	95099
PLAST MOLDING, CASTING MACHINE SETTER	713	91902
PLASTERERS AND STUCCO MASONS	583	87317

Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
PLASTIC MOLDING, CASTING MACHINE OPS	714	91905
PLATEMAKERS	666	89718
PLUMBERS AND RELATED WORKERS	586	87500
PLUMBERS, PIPEFITTERS, STEAMFITTER	587	87502
PODIATRISTS	208	32111
POLICE AND DETECTIVE SUPERVISORS	395	61005
POLICE DETECTIVES	402	63011
POLICE PATROL OFFICERS	403	63014
POLITICAL SCIENCE TEACHERS, POSTSECONDARY	171	31236
PORTABLE MACHINE CUTTERS	808	93928
POSTAL MAIL CARRIERS	375	57305
POSTAL SERVICE CLERKS	376	57308
POSTMASTERS, MAIL SUPERINTENDENTS	9	15002
POSTSECONDARY TEACHERS	146	31100
POSTSECONDARY TEACHERS, NEC	183	31299
POWER DISTRIBUTORS AND DISPATCHERS	829	95028
POWER PLANT OPS--EX AUXILIARY EQUIPMENT	826	95021
POWER REACTOR OPERATORS	828	95026
POWERHOUSE, RELATED ELECTRICIANS	542	85721
PRESS MACHINE SETTERS--METAL, PLASTIC	696	91305
PRESSERS--DELICATE FABRICS	653	89517
PRESSERS--HAND	805	93921
PRESSING MACH OPS--TEXTILE, GARMENT	760	92728
PRINT PRESS SETTERS,SET UP OPS	737	92510
PRINT PRESS SETTERS,SET-UP OPS NEC	740	92519
PRINT REL SETTERS, SET-UP OPS, NEC	744	92529
PRINT, BINDING, RELATED MACHINE OPS, TENDER	749	92549
PRINTING PRESS MACHINE OPS, TENDER	746	92543
PRINTING WORKERS, NEC--PRECISION	669	89799
PRINTING WORKERS, PRECISION	656	89700
PRINTING, BINDING, RELATED WORKERS	736	92500
PROCUREMENT CLERKS	349	55326
PROD INSPECTORS, TESTERS, & GRADER	500	83005
PROD, CONST, OPER, MATERIAL HANDLING	490	80000
PROD, PLANNING, EXPEDITING CLERKS	381	58008
PRODUCERS, DIRECTORS, ACTORS	264	34056
PRODUCTION OCCUPATIONS, PRECISION	625	89000
PROFESSIONAL, PARAPROF, TECHNICAL	23	20000
PROOFREADERS AND COPY MARKERS	334	53911
PROPERTY AND REAL ESTATE MANAGERS	12	15011
PROTECTIVE SERVICE OCCUPATIONS	398	63000
PROTECTIVE SERVICE WORKERS, NEC	415	63099
PRUNERS	483	79033
PSYCHIATRIC AIDES	437	66014
PSYCHIATRIC TECHNICIANS	242	32931
PSYCHOLOGISTS	122	27108
PSYCHOLOGY TEACHERS, POSTSECONDARY	172	31237
PUBLIC ADMIN CHIEF EXECUTIVES, LEGISLATORS	20	19002
PUBLIC RELATIONS SPECIALISTS, PUBLICITY WRITERS	248	34008
PUMP OPERATORS	882	97953

Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
PUNCH MACHINE SETTERS--METAL, PLASTIC	695	91302
PURCHASING AGENTS AND BUYERS--FARM PRODUCTS	35	21305
PURCHASING AGENTS--EX WHOLESALE, RETAIL, FARM PRODS	36	21308
PURCHASING AGENTS AND BUYERS	33	21300
PURCHASING MANAGERS	5	13008
RADIATION THERAPISTS	235	32913
RADIO MECHANICS	533	85514
RADIO OPERATORS	269	39008
RADIOLOGIC TECHNOLOGISTS	237	32919
RAIL CAR REPAIRERS	522	85317
RAIL TRANSPORTATION WORKERS	841	97300
RAIL VEHICLE OPERATIVES, NEC	848	97399
RAIL YARD ENGINEERS AND RELATED	844	97308
RAILROAD BRAKE, SIGNAL, SWITCH OPERATORS	847	97317
RAILROAD CONDUCTORS, YARDMASTERS	842	97302
RAILROAD, TRANSIT POLICE, SPECIAL AGENTS	411	63038
RAIL-TRACK LAYING, MAINTENANCE EQUIPMENT OPS	600	87714
REAL ESTATE CLERKS	335	53914
RECEPTIONISTS, INFORMATION CLERKS	343	55305
RECREATION WORKERS	129	27311
RECREATIONAL THERAPISTS	218	32317
REFRACTORY MATERIALS REPAIRERS	513	85126
REFUSE COLLECTORS	903	98705
REGISTERED NURSES	221	32502
REINFORCING METAL WORKERS	582	87314
RELIGIOUS WORKERS	130	27500
RELIGIOUS WORKERS, NEC	133	27599
REPORTERS AND CORRESPONDENTS	249	34011
RESERVATION, TRANS TICKET AGENTS	328	53805
RESIDENTIAL COUNSELORS	127	27307
RESPIRATORY CARE PRACTITIONERS	213	32302
RIGGERS	559	85935
ROASTING, BAKING MACHINE OPERATORS--FOOD	768	92921
ROCK SPLITTERS, QUARRY	613	87908
ROLLING MACH SETTERS--METAL, PLASTIC	699	91314
ROOF BOLTERS	618	87923
ROOFERS	605	87808
ROTARY DRILL OPERATORS--OIL, GAS EXTRACT	614	87911
ROUSTABOUTS	617	87921
SAFETY ENGINEERS--EXCEPT MINING	64	22132
SALES AGENTS, PLACERS--INSURANCE	276	43002
SALES AGENTS--ADVERTISING	283	43023
SALES AGENTS--FINANCIAL SERVICES	280	43014
SALES AGENTS--REAL ESTATE	278	43008
SALES AGENTS--SELECTED BUSINESS SERVICES	281	43017
SALES AGENTS--SERVICE	275	43000
SALES AND RELATED OCCUPATIONS	273	40000
SALES AND RELATED WORKERS, NEC	297	49999
SALES ENGINEERS	286	49002
SALES REPRESENTATIVES, NON-SCIENTIFIC EX RET	288	49008

Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
SALES REPRESENTATIVES, SCIENTIFIC--EX RETAIL	287	49005
SALES REPRESENTATIVES, SERVICE--NEC	284	43099
SALESPERSONS, RETAIL	289	49011
SALESPERSONS--PARTS	290	49014
SAW MACHINE TOOL SETTERS--METAL, PLASTIC	688	91102
SAWING MACHINE OPERATORS AND TENDERS	733	92308
SAWING MACHINE SETTERS, SET-UP OPERATORS	731	92302
SCANNER OPERATORS	664	89715
SCREEN PRINT MACHINE SETTERS, SET-UP	742	92524
SECRETARIAL, GENERAL OFFICE OCCUPATIONSS	336	55000
SECRETARIES	337	55100
SECRETARIES, GENERAL	340	55108
SECRETARIES, LEGAL	338	55102
SECRETARIES, MEDICAL	339	55105
SELECTED ROAD, RAIL AND RELATED	595	87700
SEPARATING, STILL MACHINE OPS, TENDERS	782	92962
SEPTIC TANK, SEWER PIPE SERVICERS	590	87511
SERVICE OCCUPATIONS	392	60000
SERVICE STATION ATTENDANTS	861	97805
SERVICE UNIT OPERATORS	616	87917
SERVICE WORKERS, NEC	465	69999
SEWERS--HAND	806	93923
SEWING MACHINE OPERATORS--GARMENT	756	92717
SEWING MACHINE OPS--NON-GARMENT	757	92721
SHAMPOOERS	453	68011
SHEAR MACHINE SETTERS--METAL, PLASTIC	697	91308
SHEET METAL DUCT INSTALLERS	604	87805
SHEET METAL WORKERS	637	89132
SHERIFFS AND DEPUTY SHERIFFS	409	63032
SHIP ENGINEERS	856	97521
SHIPFITTERS	633	89121
SHOE AND LEATHER WKRS--PRECISION	651	89511
SHOE SEWING MACHINE OPS, TENDERS	758	92723
SHUTTLE CAR OPERATORS	876	97935
SIGNAL OR TRACK SWITCH MAINTAINERS	532	85511
SLAUGHTERERS AND BUTCHERS	671	89802
SMALL ENGINE SPECIALISTS	526	85328
SOCIAL SCI, RECREATION, RELIGIOUS	118	27000
SOCIAL SCIENCE TEACHERS, POSTSECONDARY	165	31230
SOCIAL SCIENCES TEACHERS, POSTSECONDARY,	173	31239
SOCIAL SCIENTISTS, NEC	123	27199
SOCIAL SCIENCE--INCL URBAN, REGIONAL PLANNERS	119	27100
SOCIAL WORKERS--EX MEDICAL, PSYCHIATRIC	126	27305
SOCIAL WORK TEACHERS, POSTSECONDARY	177	31247
SOCIAL WORKERS--MEDICAL, PSYCHIATRIC	125	27302
SOLDERERS AND BRAZERS	804	93917
SOLDERING, BRAZING MACH OPS, TENDERS	710	91711
SOLDERING, BRAZING MACH SETTERS	709	91708
SPEC MATERL PRINTING MACH SETTERS	741	92522
SPECIAL AGENTS--INSURANCE	39	21505

Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
SPEECH PATHOLOGISTS, AUDIOLOGISTS	217	32314
SPOTTERS--DRY CLEANING	652	89514
SPRAYERS, APPLICATORS	484	79036
STATEMENT CLERKS	310	53126
STATION INSTALLERS--TELEPHONE	544	85726
STATIONARY ENGINEERS	830	95032
STATISTICAL CLERKS	350	55328
STATISTICIANS	113	25312
STENOGRAPHERS AND/OR COURT REPORTER	342	55302
STEVEDORES--EX EQUIPMENT OPERATORS	902	98702
STOCK CLERKS--SALES FLOOR	292	49021
STOCK CLERKS--STOCKROOM, WAREHOUSE	386	58023
STONE MASONS	579	87305
STRIPPERS	665	89717
STRUCTURAL METAL WORKERS	607	87814
SUBWAY AND STREETCAR OPERATORS	846	97314
SURGICAL TECHNICIANS	241	32928
SURVEYING AND MAPPING SCIENTISTS	72	22311
SURVEYING AND MAPPING TECHNICIANS	80	22521
SWITCHBOARD OPERATORS	368	57102
SYSTEMS ANALYSTS--ELECTRIC DATA PROCESSING	103	25102
TANK CAR AND TRUCK LOADERS	866	97905
TAPERS	572	87111
TAX EXAMINERS, COLLECTORS, REVENUE AGENTS	47	21914
TAX PREPARERS	29	21111
TAXI DRIVERS AND CHAUFFEURS	838	97114
TEACHER AIDES & EDUCATIONAL ASSISTANTS, CLERICAL	332	53905
TEACHER AIDES, PARAPROFESSIONAL	202	31521
TEACHERS AND INSTRUCTORS, NEC	194	31399
TEACHERS, EDUCATORS, LIBRARIANS	145	31000
TEACHERS, KINDERGARTEN	186	31304
TEACHERS, PRESCHOOL	185	31303
TEACHERS--ELEMENTARY SCHOOL	187	31305
TEACHERS--SECONDARY SCHOOL	188	31308
TEACHERS--SPECIAL EDUCATION	189	31311
TEACHERS--VOCATIONAL ED AND TRAINING	190	31314
TECHNICAL ASSISTANTS--LIBRARY	197	31505
TECHNICAL WRITERS	247	34005
TELEGRAPH AND TELETYPE OPERATORS	371	57111
TELEGRAPH, TELETYPE INSTALLERS	531	85508
TELEMARKETERS, SOLICITORS & RELATED	294	49026
TELEPHONE, CABLE TV INSTALLERS	536	85702
TELLERS	302	53102
TEXTILE, APPAREL, FURNISHINGS, NEC--PRECISION	655	89599
TEXTILE BLEACHING, DYEING MACHINE OPERATORS	755	92714
TEXTILE DRAW-OUT MACH OPERATORS, TENDERS	754	92711
TEXTILE MACHINE SETTERS, SET-UP OPERATORS	751	92702
TEXTILE OPERATORS, TENDERS--WIND, TWIST, KNIT	752	92705
TEXTILE, APPAREL, FURNISHINGS, PRECISION	647	89500
TEXTILE, RELATED SETTERS, OPERATORS	750	92700

Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
THERAPISTS	212	32300
THERAPISTS, NEC	219	32399
TIMBER CUTTING AND LOGGING	469	73000
TIMBER CUTTING AND RELATED, NEC	474	73099
TIRE BUILDING MACHINE OPERATORS	765	92911
TIRE REPAIRERS AND CHANGERS	564	85953
TITLE EXAMINERS AND ABSTRACTORS	143	28311
TITLE SEARCHERS	142	28308
TOOL AND DIE MAKERS	627	89102
TOOL GRINDERS, FILERS, SHARPENERS	630	89111
TRAFFIC TECHNICIANS	268	39005
TRAFFIC, SHIPPING, RECEIVING CLERKS	388	58028
TRANS AND RELATED WORKERS, NEC	863	97899
TRANS ATTENDANTS-EX FLIGHT	459	68028
TRANS, MATERIAL MOVING EQUIPMENT OPS, NEC	885	97999
TRANS, MATERIAL MOVING MACHINE OPS	832	97000
TRANSIT CLERKS	304	53108
TRANSPORTATION AGENTS	382	58011
TRANSPORTATION INSPECTORS	501	83008
TRAVEL AGENTS	282	43021
TRAVEL CLERKS	327	53802
TRUCK DRIVERS, HEAVY	834	97102
TRUCK DRIVERS, LIGHT	835	97105
TYPESETTING, COMPOSING MACHINE OPS	745	92541
TYPISTS, INCLUDING WORD PROCESSING	344	55307
U.S. MARSHALLS	407	63026
UNDERGROUND MINE MACHINE MECHANICS	509	85117
UNDERWRITERS	26	21102
UPHOLSTERERS	650	89508
URBAN AND REGIONAL PLANNERS	121	27105
USHERS, LOBBY ATTENDANTS	456	68021
VEHICLE WASHERS, EQUIPMENT CLEANERS	907	98905
VETERINARY ASSISTANTS	486	79806
VETERINARY TECHNICIANS	243	32951
VETS AND VETERINARY INSPECTORS	210	32114
VOCATIONAL & EDUCATIONAL COUNSELOR	200	31514
WAITERS AND WAITRESSES	419	65008
WARDROBE ATTENDANTS	460	68032
WATCH ASSEMBLERS, RELATED--PRECISION	796	93117
WATCHMAKERS	553	85917
WATER TRANSPORTATION WORKERS	849	97500
WATER TREATMENT PLANT OPERATORS	820	95002
WEIGHERS, MEASURERS-RECORDKEEPING	384	58017
WELDERS AND CUTTERS	803	93914
WELDING MACH OPERATORS AND TENDERS	708	91705
WELDING MACH SETTERS, SET-UP OPS	707	91702
WELFARE ELIGIBILITY WORKERS, INTERVIEWERS	319	53502
WELL HEAD PUMPERS	868	97911
WHOLESALE AND RETAIL BUYERS-EX FARM PRODS	34	21302
WOOD MACHINISTS	643	89308

Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
WOODWORK MACH OPS,TNDRS--EX SAWING	735	92314
WOODWORK MACH SETTERS--EX SAWING	734	92311
WOODWORKERS, NEC--PRECISION	646	89399
WOODWORKERS, PRECISION	640	89300
WOODWORKING MACHINE SETTERS, OPS	730	92300
WORKERS, PRECISION--NEC	685	89999
WRITERS AND EDITORS	246	34002
WRITERS, ARTISTS, ENTER, ATHLETES	245	34000

Standard Industrial Classification Manual

The Standard Industrial Classification (SIC) is a nationally standardized system for identifying and coding business establishments according to their industrial activity. An "establishment" is an economic unit, generally located at a single physical location, where business is conducted or where services or industrial operations are performed. The Standard Industrial Classification (SIC) Manual is the reference guide used to accurately apply and/or understand the classification coding system.

The SIC Manual's format separates industries into ten broad divisions, such as manufacturing and retail trade. Within those broad groupings are more specific two-digit codes, as well as more detailed three-digit and four-digit codes, that identify specific industries. Brief narratives describe the kinds of establishments contained in each classification category.

Suggestions for Users

The SIC Manual facilitates the collection, analysis and publication of information about business establishments. This standardized system is used throughout the United States to promote uniformity in the publications of private and governmental agencies. The Employment Development Department's field office personnel use the manual to assign SIC codes to employers

to aid in providing services. Trade associations and private industry use the manual in reference books, such as the California Manufacturers Register.

The manual can help one to understand the composite industries summarized in publications. However, all public sector workers are usually grouped together into a category called "government", which includes federal, state and local government, and state and local education.

The U.S. Department of Labor, Occupational Safety and Health Administration provides SIC information on the Internet at <http://www.osha.gov/oshstats/sicser.html>

The SIC Manual may be purchased from U.S. Government Bookstores, Bureau of Labor Statistics, or the Superintendent of Documents in Los Angeles or San Francisco. For information about purchasing this manual, contact:

U.S. Government Bookstore
Marathon Plaza, Room 141-S
303 2nd Street
San Francisco, CA 94107
Phone - (415) 512-2770
Fax - (415) 512-2776
<http://access.gpo.gov>

North American Industry Classification System

The United States has a new industry classification system. The North American Industry Classification System (NAICS) will soon replace the U.S. Standard Industrial Classification (SIC) system.

NAICS is the first-ever North American Industry classification system. The system was developed by the U.S., Canada, and Mexico to provide comparable statistics across the three countries. For the first time, government and business analysts will be able to compare directly industrial production statistics collected and published in the three North American Free Trade Agreement countries.

NAICS will reshape the way we view our changing economy. It is a unique, all-new system for classifying business establishments. It is the first economic classification system to be constructed based on a single economic concept. Economic units that use like processes to produce goods or services are grouped together. This "production-oriented" system means that statistical agencies in the United States will produce data that can be used for:

- measuring productivity, unit labor costs, and the capital intensity of production;
- constructing input-output relationships and;
- estimating employment-output relationships and other such statistics that require that inputs and outputs be used together.

NAICS responds to increasing and serious criticism about the SIC. NAICS reflects the structure of today's economy in the United States, Canada, and Mexico, including the emergence and growth of the service sector and new and advanced technologies. It is a flexible system that allows each country to recognize important industries below the level at which comparable data will be shown for all three countries.

The 1997 Economic Census will provide the first official NAICS-based statistics. Advance statistics will appear in early 1999. A report in 2000 will show relationships between NAICS and SIC industries.

Implementation by Federal agencies will be in phases. Some agency programs will convert to NAICS as early as 1999, others as late as 2004.

How is NAICS better?

NAICS will make economic statistics more useful. It will improve basic benchmark and current performance statistics, like manufacturers' shipments, retail sales, and service receipts. It will improve statistics by providing an all-new industry classification system that is more:

Relevant. NAICS identifies new industries, revises concepts, and reorganizes classifications so that industry-classified statistics highlight businesses that contribute most to our economy.

Consistent. NAICS classifies businesses into industries based on one principle instead of several; the principle that businesses using similar production processes are classified together.

Comparable. NAICS provides first-ever comparability in North American industry classifications and economic statistics.

Flexible. NAICS classifications will be updated regularly to keep pace with changes in our economy; every 5 years, all three North American countries will review NAICS and make needed revisions.

How NAICS will affect the economic data you use.

Every sector of the economy has been restructured and redefined:

- A new *Information* sector combines communications, publishing, motion picture and sound recording, and online services, recognizing our information-based economy.
- *Manufacturing* is restructured to recognize new high-tech industries. A new subsector is devoted to computers and electronics, including reproduction of software.
- *Retail Trade* is redefined. In addition, eating and drinking places are transferred to a new *Accommodation and Food Services* sector.
- The difference between *Retail* and *Wholesale* is now based on how each store conducts business. For example, many computer stores are reclassified from wholesale to retail.
- Nine new service sectors and 250 new service industries are recognized.

All new numbering system

Numeric codes for each NAICS classification are completely different from those of the SIC. The new numbering system underscores the "clean slate" approach taken in NAICS and allows its classification changes to be fully developed. The new system provides five levels of classification (up from four in the SIC), detailed codes that have a maximum of six-digits (up from four in the SIC) and detailed classifications called "U.S. Industry" (instead of "Industry" in the SIC). These changes require new numbers, even for industries that continue without change. For example, both NAICS and SIC include the detailed industry, "Passenger car rental." However, in NAICS, it has code number 532111, and in the SIC, it was code number 7514. While all NAICS numeric codes are new, like the SIC, they are organized into multi-level hierarchical classification groups that build up from the detailed industry level. The additional level of classification and expanded number of digits permit NAICS to account for the increased number of classifications, provide flexibility in structuring industry classification groups, and allow for country-based variations in classification detail.

A variety of information resources are available to help users of business statistics understand and use NAICS. Additional information, answers to frequently asked questions, and updated agency implementation plans are available at the Census Bureau's Internet site:

www.census.gov/naics

Answers to specific classification and data program inquiries may also be addressed to industry experts at:

Phone: 1-888-75NAICS

E-mail: naics@census.gov

Projection Methods And Economic Assumptions

The employment projection process consists of two phases – first, projections for employment by industry are made using both historical data and current information about the economy. Next, the industry projections become a primary data source used to project changes in occupational employment.

Changes in occupational employment over time result from two principal sources: industry growth and technological change. In developing occupational employment projections, both of these components must be addressed.

The following is a discussion of how industry and occupational projections are developed, beginning with a description of data sources and followed by a description of the steps involved.

Principal Data Sources

Employment by Industry

The source of the official historical industry employment series used for industry projections for the state and each county is the Current Employment Statistics (CES) program. This is a Federal/State co-operative program that compiles monthly estimates of industry employment groupings for the state and each county. These monthly industry employment estimates are based primarily on employer sample surveys.

A second source used in industry forecasts is the Covered Employment and Wage Data, or ES-202 program. Essentially, this program extracts employment and wage information from quarterly tax returns filed by each California employer covered by unemployment insurance. Each employer has been assigned a specific industry and county code and these data are compiled to provide the 'actual' industry employment levels for each industry and county. These data are then used for benchmarking the monthly industry employment

estimates made in the CES program. This is also a Federal/State co-operative program.

Employment by Occupation

Occupational employment estimates are based on survey data collected through the Occupational Employment Statistics (OES) program. The OES survey is an annual mail survey of non-farm employers conducted by the Employment Development Department in cooperation with the U.S. Bureau of Labor Statistics. The survey is based on a sample designed to represent the universe of employers in each state. In California, data are collected for over 800 occupations at the three-digit SIC level of detail. The survey samples approximately 110,000 business establishments over a three year period.

The Process

Industry Projections

Industry projections are first developed at aggregated levels (industry groupings) for the state and each county based on the Current Employment Statistics employment series.

Second, these aggregated industry projections are then broken down into more industry specific detail using the ES-202 data. The industry specific projections then become the primary source from which occupational projections are developed by using industry staffing patterns data. The following steps outline the process:

- Approximately every two years, industry employment projections are produced for the nation by the Bureau of Labor Statistics.
- Industry projections are then developed for the State using input from the national forecast and the historical industry employment series for the State.

- County industry projections are then developed using input from the state forecast and the historical employment series for each county.
- State projections are developed for ten years from the base period and county projections are developed for seven years from the base period.
- The State forecasts are reviewed by Labor Market Information Division (LMID) industry analysts, California's Department of Finance, and academics.
- County forecasts are reviewed by local area consultants who provide up to date information regarding recent developments in each county that would not normally be accounted for in the model.

Occupational Projections

The distribution of industry employment by occupation is performed in three steps.

- OES survey responses are summarized by industry and matched with the appropriate SIC in the area. (In cases where local OES responses are not available, either state-wide responses or another area's responses are substituted.)
- The survey data are adjusted to total to the annual average employment level for each industry. This results in estimates of employment by occupation within the three-digit SICs for the base year.
- Finally, base year staffing patterns are adjusted to account for projected shifts in the occupational distributions due to technological changes. These projected changes are derived from special studies conducted by the U.S. Bureau of Labor Statistics. Applying these changes to the base year staffing patterns results in staffing patterns by three-digit SIC for the projected year. Projected year staffing patterns are applied to the industry employment projections

to produce occupational employment projections within three-digit SICs. Data by occupation are then summed to get the occupational estimates. The difference between the base year occupation estimates and the projected year projections represents the job growth resulting from industry growth and from technological change. (Change factors do not try to predict regulatory changes.)

Demand for workers is also created by openings that result when workers leave their jobs to enter other occupations, retire, or leave the labor force for other reasons. These openings, termed *separations*, are important because, in most occupations, they exceed job openings resulting from employment growth. Even occupations that are projected to decline usually provide job openings due to separations. Separations are developed from separation rates compiled on a national basis every two years by the Bureau Of Labor Statistics.

Economic Assumptions

The industry and occupational projections in this report are based on the following assumptions:

- ✓ The institutional framework of the U.S. economy will not change radically.
- ✓ Recent technological and scientific trends will continue.
- ✓ The long-term employment patterns will continue in most industries.
- ✓ Federal, state, and local government agencies will continue to operate under budgetary constraints.
- ✓ No major events, such as war, will occur that will significantly alter the industrial structure of the economy, the occupational staffing patterns, or the rate of long-term growth.
- ✓ Population growth rates and age distributions will not differ significantly from Department of Finance projections presently available.
- ✓ Attitudes toward work, education, income, and leisure will not change significantly.

Projections & Planning Information

Module E:

Wages

Table of Contents

Module E: Occupational Wages.....	PAGE
Introduction.....	E-v
Occupational Employment Statistics	
Wage Survey Results	E-1

Occupational Employment Statistics Wage Survey

The Occupational Employment Statistics (OES) survey is an annual mail survey measuring occupational employment and occupational wage rates for wage and salary workers in nonfarm establishments by industry. The survey samples approximately 37,000 establishments per year, taking 3 years to fully collect the sample of 113,000 establishments in California.

The 2000 OES survey is the second year to use the new Standard Occupational Classification (SOC) system to identify occupational categories. These survey samples are based only on two years of data collected in the 1999 and 2000 survey. Surveys prior to 1999 used the Occupational Employment Statistics (OES) classification system. Of the nearly 770 SOC occupations, 374 are a direct match with the OES classification system definitions. The rest are newly defined SOC occupations. The SOC structure and definitions can be found at the Bureau of Labor Statistics (BLS) SOC website at www.bls.gov.

The wage data for all occupations have been updated to the third quarter of 2001 by applying the Employment Cost Index of the 2000 SOC wage database. The occupational employment estimates are for 2000. A more complete set of technical notes for the 2000 OES survey is available at the BLS website.

'Employment' Definition

The OES survey defines employment as the number of workers who can be classified as full-time or part-time employees; workers on paid vacations or other types of leave; workers on unpaid or short-term absences; salaried officers, executives, and staff members of incorporated firms; employees temporarily assigned to other units; and employees for whom the reporting unit is their permanent duty station, regardless of whether that unit prepares their paycheck. The survey excludes the self-employed, owners/partners of unincorporated firms, and unpaid family workers. Employees are reported in the occupation in which they are working, not necessarily for which they were trained.

Business Establishment Description

The OES survey uses the Standard Industrial Classification (SIC) system to classify all an economic unit which processes goods or provides services, such as a factory or store. The establishment is generally at a single physical location and is engaged primarily in one type of economic activity.

The scope of the survey includes establishments in SIC codes 07, 10, 12 to 17, 20 to 42, 44 to 65, 67, 70, 72, 73, 75, 76, 78 to 84, 86, 87, and 89 covering agricultural services; mining; construction; manufacturing; transportation and public utilities; wholesale and retail trade; finance, insurance, and real estate; services; and government.

Source of Sample Selection

The California Unemployment Insurance (UI) file provided the universe from which the OES survey draws its sample. The employment benchmark was obtained from reports submitted by employers to the UI program. In some nonmanufacturing industries, supplemental sources are used for establishments not reporting to the UI program.

The OES survey frame is stratified by area, industry and size class. Size classes are defined as follows:

<u>Size Class</u>	<u>Number of Employees</u>
1	1 to 4
2	5 to 9
3	10 to 19
4	20 to 49
5	50 to 99
6	100 to 249
7	250 and above

UI reporting units with 250 or more employees are sampled with certainty across a 3-year period. Generally, one-third of the certainty units are sampled each year in each state. There are some states that sample more than one-third of their certainty units during one survey year.

Terms and Concepts

Employment represents the estimate of total wage and salary employment in an occupation across the industries in which it was surveyed. The OES survey form contains between 50 and 225 SOC occupations selected on the basis of the industry classification and size of the sampled establishments. To reduce paperwork and respondent burden, no survey form contains every SOC occupation. Thus, data for specific occupations are collected from establishments within industries that are the predominant employers of labor in those occupations.

Wages for the OES survey are straight-time gross pay, exclusive of premium pay. Included are base rate, cost-of-living allowances, guaranteed pay, hazardous duty pay, incentive pay including commissions and production bonuses, tips, and on-call pay. Excluded are back pay, jury duty pay, overtime pay, severance pay, shift differentials, non-production bonuses, employer cost of supplementary benefits, and tuition reimbursements.

The OES survey collects wage data in 12 intervals. Employers report the number of employees in an occupation per each wage range. The wage intervals are as follows:

Interval	Hourly Wage	Annual Wage
A	Under \$6.75	Under \$14,040
B	\$6.75 to 8.49	\$14,040 to 17,679
C	\$8.50 to 10.74	\$17,680 to 22,359
D	\$10.75 to 13.49	\$22,360 to 28,079
E	\$13.50 to 16.99	\$28,080 to 35,359
F	\$17.00 to 21.49	\$35,360 to 44,719
G	\$21.50 to 27.24	\$44,720 to 56,679
H	\$27.25 to 34.49	\$56,680 to 71,759
I	\$34.50 to 43.74	\$71,760 to 90,999
J	\$43.75 to 55.49	\$91,000 to 115,439
K	\$55.50 to 69.99	\$115,440 to 145,599
L	\$70.00 and over	\$145,600 and over

Wages are calculated using wage data from establishments in the industries that are the predominant employers of an occupation. Industries that do not typically employ workers in a given occupation are not included in the calculation of the mean and median wage.

Mean Hourly Wage is the estimated total wages for an occupation divided by its weighted survey employment. When the wages for an occupation are concentrated in the upper wage interval, it is not possible to calculate a reliable mean. In those instances, both the mean hourly wage and the mean annual wage are replaced by a "(3)" and the user is referred to the appropriate footnote. There are a small number of occupations where only an annual wage figure is provided; the workers in these occupations are generally paid on an annual basis, and their annual wage has been directly calculated from the reported survey data. Occupations that typically have a work-year of less than 2,080 hours include musical and entertainment occupations, aircraft pilots, flight attendants, and teachers. These occupations are identified in the data tables with "(2)" in the hourly wage cells.

Median Hourly Wage is the estimated 50th percentile of the distribution of wages; 50 percent of workers in an occupation earn wages below the median wage, and 50 percent earn wages above the median wage.

Entry-Level Hourly Wage is the mean of the first third of the wage distribution. This calculation is provided as a proxy for an entry-level wage.

First Quartile Wage is the estimated 25th percentile of the distribution of wages; 25 percent of workers in an occupation earn wages below the first quartile wage, and 75 percent earn wages above the first quartile wage.

Third Quartile Wage is the estimated 75th percentile of the distribution of wages; 75 percent of workers in an occupation earn wages below the third quartile wage, and 25 percent earn wages above the third quartile wage.

Metropolitan Area The general concept of a metropolitan area (MA) is one of a large population nucleus, together with adjacent communities that have a high degree of economic and social integration with that nucleus. Some MAs are defined around two or more nuclei. The MAs are designated and defined by the Federal Office of Management and Budget, following a set of official published standards. These standards were developed by

the Interagency Federal Executive Committee on Metropolitan Areas, with the aim of producing definitions that are as consistent as possible for all MAs nationwide.

Metropolitan Statistical Area (MSA) A MSA comprises one or more central counties. A MSA also may include one or more outlying counties that have close economic and social relationships with the central county. An outlying county must have a specified level of commuting to the central counties and also must meet certain standards regarding metropolitan character, such as population density, urban population, and population growth. The title of a MSA contains the name of its largest city and up to two additional city names, provided that the additional places meet specified levels of population, employment and commuting. Generally a city of 250,000 or more is in the title, regardless of other criteria.

Primary Metropolitan Statistical Area (PMSA) The criteria that designates and defines a MSA also designates and defines a PMSA. If an area that qualifies as a MA has more than one million persons, primary metropolitan statistical areas (PMSAs) may be defined within it. PMSAs consist of a large urbanized county or cluster of counties that demonstrate very strong internal economic and social links, in addition to close ties to other portions of the larger area. The title of a PMSA may contain up to three place names, or up to three county names, sequenced in order of population.

Consolidated Metropolitan Statistical Area (CMSA) A CMSA consists of two or more Primary Metropolitan Statistical Areas (PMSAs).

Occupational Employment Statistics (OES) Survey Results

Santa Cruz - Watsonville PMSA

Santa Cruz County

These survey data are from the 2001 Occupational Employment Statistics (OES) survey. The wages have all been updated to the third quarter of 2002 by applying the US Department of Labor's Employment Cost Index to the 2001 wages. Occupations are classified using the Standard Occupational Classification (SOC) codes. For details of the methodology, see the Overview of the OES Survey at

[http://www.calmis.ca.gov/file/occup\\$/oes\\$.htm](http://www.calmis.ca.gov/file/occup$/oes$.htm)

(Sorted by Occupational Title)

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
13-2011	Accountants and Auditors	\$18.58	\$27.05	\$20.74	\$26.40	\$32.27
11-3011	Administrative Services Managers	\$15.60	\$28.87	\$17.53	\$26.08	\$36.95
11-2011	Advertising and Promotions Managers	\$20.22	\$41.79	\$23.97	\$40.73	\$61.78
41-3011	Advertising Sales Agents	\$17.38	\$32.70	\$21.40	\$32.86	\$42.42
19-4011	Agricultural and Food Science Technicians	\$7.92	\$13.30	\$8.75	\$12.28	\$16.36
27-1099	All Other Art and Design Workers	\$13.95	\$21.47	\$15.65	\$19.12	\$22.24
37-9099	All Other Building and Grounds Cleaning and Maintenance Workers	\$7.86	\$13.12	\$9.19	\$12.39	\$15.25
21-9099	All Other Counselors, Social and Religious Workers	\$6.75*	\$14.34	\$6.76	\$14.30	\$20.55
17-3099	All Other Drafters, Engineering, and Mapping Technicians	\$16.14	\$22.96	\$17.45	\$21.52	\$27.97
43-4999	All Other Financial, Information, and Record Clerks	\$11.43	\$15.35	\$12.66	\$15.14	\$17.61
29-9199	All Other Health Professionals and Technicians	\$12.50	\$19.87	\$13.82	\$17.26	\$21.48
43-9999	All Other Secretaries, Administrative Assistants, and Other Office Support	\$9.51	\$13.54	\$10.72	\$13.27	\$15.96
25-3999	All Other Teachers, Primary, Secondary, and Adult	(2)	(2)	(2)	(2)	(2)
27-3010	Announcers	\$6.75*	\$9.40	\$6.75*	\$7.35	\$11.23

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
17-0000	Architecture and Engineering Occupations	\$14.94	\$29.84	\$18.16	\$26.85	\$40.43
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations	\$9.43	\$21.63	\$12.36	\$19.21	\$29.24
51-2099	Assemblers and Fabricators, All Other	\$7.92	\$10.22	\$8.28	\$9.52	\$11.21
25-1051	Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary	(2)	(2)	(2)	(2)	(2)
49-3021	Automotive Body and Related Repairers	\$12.58	\$19.63	\$14.17	\$19.88	\$24.96
49-3023	Automotive Service Technicians and Mechanics	\$11.26	\$19.41	\$12.73	\$17.75	\$25.53
39-6011	Baggage Porters and Bellhops	\$6.75*	\$7.35	\$6.75*	\$6.78	\$7.87
51-3011	Bakers	\$8.51	\$10.95	\$9.12	\$10.56	\$12.44
35-3011	Bartenders	\$6.89	\$9.15	\$7.22	\$8.17	\$10.07
49-3091	Bicycle Repairers	\$7.83	\$11.32	\$9.37	\$11.59	\$13.86
43-3011	Bill and Account Collectors	\$10.87	\$14.33	\$11.72	\$13.91	\$16.52
43-3021	Billing and Posting Clerks and Machine Operators	\$11.21	\$14.40	\$11.94	\$13.64	\$16.50
51-5011	Bindery Workers	\$11.76	\$17.12	\$13.89	\$18.21	\$20.68
19-4021	Biological Technicians	\$8.41	\$12.17	\$8.95	\$10.96	\$14.71
43-3031	Bookkeeping, Accounting, and Auditing Clerks	\$10.82	\$15.48	\$12.19	\$14.97	\$18.20
47-2021	Brickmasons and Blockmasons	\$11.82	\$15.23	\$13.12	\$15.84	\$17.51
13-2031	Budget Analysts	\$17.77	\$24.73	\$18.82	\$22.95	\$30.63
37-0000	Building and Grounds Cleaning and Maintenance Occupations	\$7.37	\$11.16	\$7.88	\$9.74	\$13.33
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	\$16.53	\$21.31	\$18.30	\$21.58	\$25.12
13-0000	Business and Financial Operations Occupations	\$15.61	\$25.66	\$18.20	\$23.93	\$30.50

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
13-1199	Business Operations Specialists, All Other	\$15.46	\$24.50	\$17.99	\$24.35	\$29.78
51-3021	Butchers and Meat Cutters	\$11.26	\$16.87	\$13.36	\$18.45	\$20.70
51-7011	Cabinetmakers and Bench Carpenters	\$11.25	\$16.76	\$13.03	\$16.45	\$20.18
43-5011	Cargo and Freight Agents	\$16.26	\$31.25	\$18.74	\$26.21	\$48.78
47-2031	Carpenters	\$16.71	\$23.49	\$19.59	\$24.32	\$28.24
47-2041	Carpet Installers	\$10.30	\$14.90	\$11.20	\$13.60	\$16.43
41-2011	Cashiers	\$7.11	\$9.97	\$7.36	\$8.64	\$10.90
47-2051	Cement Masons and Concrete Finishers	\$10.81	\$17.20	\$12.26	\$16.68	\$22.68
35-1011	Chefs and Head Cooks	\$10.08	\$15.36	\$11.58	\$13.59	\$19.94
19-4031	Chemical Technicians	\$11.44	\$15.61	\$12.84	\$16.02	\$17.78
19-2031	Chemists	\$14.82	\$21.18	\$16.13	\$19.88	\$24.92
11-1011	Chief Executives	\$40.54	(3)	\$50.54	\$65.02	>\$70.00
39-9011	Child Care Workers	\$6.75*	\$8.77	\$7.13	\$8.68	\$10.21
29-1011	Chiropractors	\$24.74	(3)	\$31.37	\$37.84	>\$70.00
17-3022	Civil Engineering Technicians	\$17.09	\$22.09	\$18.74	\$21.45	\$25.49
17-2051	Civil Engineers	\$25.26	\$34.03	\$27.80	\$32.59	\$36.90
13-1031	Claims Adjusters, Examiners, and Investigators	\$20.22	\$24.51	\$20.52	\$23.85	\$28.36
53-7061	Cleaners of Vehicles and Equipment	\$6.75*	\$9.81	\$6.96	\$8.93	\$11.53
51-9192	Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders	\$8.08	\$9.49	\$8.20	\$9.10	\$10.82
21-2011	Clergy	\$17.15	\$28.70	\$18.35	\$21.34	\$36.75

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
19-3031	Clinical, Counseling, and School Psychologists	\$18.65	\$26.94	\$21.24	\$28.33	\$33.31
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	\$7.27	\$8.03	\$7.32	\$7.93	\$8.54
27-1021	Commercial and Industrial Designers	\$21.53	\$31.90	\$24.30	\$31.53	\$39.60
21-0000	Community and Social Services Occupations	\$10.62	\$17.62	\$11.94	\$16.30	\$22.34
13-1072	Compensation, Benefits, and Job Analysis Specialists	\$19.27	\$26.02	\$21.78	\$25.35	\$28.70
13-1041	Compliance Officers, Except Agriculture, Construction, Health and Safety, and Transportati	\$14.50	\$20.49	\$15.83	\$19.26	\$22.80
11-3021	Computer and Information Systems Managers	\$25.95	\$44.18	\$32.20	\$45.71	\$57.65
15-0000	Computer and Mathematical Occupations	\$19.68	\$34.83	\$23.00	\$34.02	\$47.81
17-2061	Computer Hardware Engineers	\$23.65	\$39.21	\$26.28	\$37.09	\$50.39
43-9011	Computer Operators	\$12.81	\$18.31	\$14.23	\$17.30	\$21.65
15-1021	Computer Programmers	\$19.37	\$32.20	\$21.91	\$28.04	\$43.27
25-1021	Computer Science Teachers, Postsecondary	(2)	(2)	(2)	(2)	(2)
15-1031	Computer Software Engineers, Applications	\$33.17	\$44.49	\$38.48	\$47.36	\$53.33
15-1032	Computer Software Engineers, Systems Software	\$31.09	\$44.72	\$36.76	\$47.15	\$54.58
15-1099	Computer Specialists, All Other	\$17.31	\$27.88	\$19.40	\$26.64	\$35.19
15-1041	Computer Support Specialists	\$15.85	\$25.60	\$17.66	\$22.88	\$31.23
15-1051	Computer Systems Analysts	\$20.92	\$32.30	\$23.95	\$30.03	\$41.40
49-2011	Computer, Automated Teller, and Office Machine Repairers	\$14.76	\$17.13	\$15.22	\$16.93	\$19.45
19-1031	Conservation Scientists	\$21.88	\$28.23	\$23.63	\$27.65	\$32.55
47-4011	Construction and Building Inspectors	\$19.27	\$24.71	\$21.16	\$25.10	\$28.21

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
47-0000	Construction and Extraction Occupations	\$11.99	\$20.29	\$13.81	\$19.56	\$26.31
47-2061	Construction Laborers	\$9.28	\$13.70	\$10.36	\$12.82	\$15.83
11-9021	Construction Managers	\$26.64	\$36.12	\$29.60	\$36.16	\$43.64
35-2011	Cooks, Fast Food	\$6.90	\$7.85	\$6.92	\$7.35	\$8.58
35-2012	Cooks, Institution and Cafeteria	\$7.90	\$10.79	\$8.29	\$10.19	\$13.14
35-2014	Cooks, Restaurant	\$7.89	\$10.42	\$8.32	\$10.06	\$12.20
35-2015	Cooks, Short Order	\$8.98	\$9.77	\$9.21	\$9.90	\$10.58
51-9193	Cooling and Freezing Equipment Operators and Tenders	\$12.47	\$14.70	\$13.52	\$15.06	\$16.52
13-1051	Cost Estimators	\$17.93	\$25.07	\$20.41	\$25.32	\$29.84
41-2021	Counter and Rental Clerks	\$7.34	\$12.05	\$8.02	\$9.94	\$13.45
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	\$7.00	\$8.70	\$7.28	\$8.35	\$9.88
43-5021	Couriers and Messengers	\$9.99	\$12.43	\$10.55	\$12.26	\$14.31
13-2041	Credit Analysts	\$16.83	\$25.25	\$18.75	\$23.28	\$30.04
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	\$11.34	\$14.56	\$11.83	\$13.54	\$16.51
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	\$10.34	\$17.47	\$11.88	\$16.98	\$23.79
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	\$8.66	\$12.55	\$9.27	\$11.46	\$15.94
43-9021	Data Entry Keyers	\$9.21	\$12.23	\$9.90	\$11.67	\$14.40
15-1061	Database Administrators	\$15.22	\$28.86	\$17.85	\$28.55	\$37.67
31-9091	Dental Assistants	\$10.87	\$15.66	\$11.38	\$15.78	\$18.12

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
29-2021	Dental Hygienists	\$40.26	\$40.30	\$38.75	\$41.20	\$43.63
43-9031	Desktop Publishers	\$15.10	\$16.84	\$15.21	\$16.70	\$18.65
29-1031	Dietitians and Nutritionists	\$20.01	\$25.08	\$22.47	\$25.27	\$27.88
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	\$6.75*	\$7.15	\$6.75*	\$6.88	\$7.92
35-9021	Dishwashers	\$6.75*	\$7.75	\$6.85	\$7.75	\$8.53
43-5032	Dispatchers, Except Police, Fire, and Ambulance	\$9.08	\$14.19	\$9.94	\$13.33	\$17.83
53-3031	Driver/Sales Workers	\$6.89	\$10.26	\$7.11	\$8.40	\$12.13
47-2081	Drywall and Ceiling Tile Installers	\$11.15	\$19.88	\$13.46	\$17.90	\$28.22
27-3041	Editors	\$14.25	\$21.62	\$16.23	\$20.18	\$26.43
11-9033	Education Administrators, Postsecondary	\$26.78	\$42.78	\$32.39	\$42.42	\$53.30
11-9031	Education Administrators, Preschool and Child Care Center/Program	\$10.24	\$18.29	\$12.03	\$16.18	\$23.96
25-0000	Education, Training, and Library Occupations	\$11.60	\$21.10	\$13.83	\$19.20	\$27.25
25-9199	Education, Training, and Library Workers, All Other	\$11.37	\$16.13	\$12.64	\$15.92	\$19.69
21-1012	Educational, Vocational, and School Counselors	\$17.23	\$26.24	\$19.20	\$26.88	\$32.75
49-2092	Electric Motor, Power Tool, and Related Repairers	\$12.95	\$18.31	\$14.25	\$19.58	\$21.74
17-3023	Electrical and Electronic Engineering Technicians	\$15.40	\$21.29	\$17.36	\$20.33	\$24.13
51-2022	Electrical and Electronic Equipment Assemblers	\$11.44	\$14.67	\$12.15	\$14.15	\$16.69
17-3012	Electrical and Electronics Drafters	\$19.70	\$26.32	\$20.96	\$23.79	\$29.09
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	\$13.36	\$18.33	\$14.94	\$17.82	\$21.30
47-2111	Electricians	\$19.92	\$27.85	\$21.80	\$26.68	\$33.09

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
17-3024	Electro-Mechanical Technicians	\$13.83	\$18.10	\$15.02	\$17.59	\$21.04
49-2097	Electronic Home Entertainment Equipment Installers and Repairers	\$9.87	\$13.22	\$10.40	\$12.33	\$13.96
17-2072	Electronics Engineers, Except Computer	\$24.78	\$35.69	\$28.21	\$35.86	\$43.66
25-2021	Elementary School Teachers, Except Special Education	(2)	(2)	(2)	(2)	(2)
43-4061	Eligibility Interviewers, Government Programs	\$12.66	\$17.11	\$13.88	\$18.34	\$20.60
29-2041	Emergency Medical Technicians and Paramedics	\$11.77	\$14.76	\$12.80	\$14.84	\$16.57
13-1071	Employment, Recruitment, and Placement Specialists	\$15.82	\$26.32	\$18.33	\$22.75	\$29.29
11-9041	Engineering Managers	\$39.70	\$54.57	\$47.90	\$56.86	\$61.78
17-2199	Engineers, All Other	\$24.22	\$37.57	\$27.32	\$36.19	\$48.03
17-2081	Environmental Engineers	\$20.57	\$30.54	\$23.20	\$29.72	\$34.68
19-2041	Environmental Scientists and Specialists, Including Health	\$15.18	\$22.93	\$17.60	\$24.23	\$27.72
53-7032	Excavating and Loading Machine and Dragline Operators	\$12.44	\$20.43	\$13.23	\$20.95	\$26.29
43-6011	Executive Secretaries and Administrative Assistants	\$12.82	\$18.84	\$15.10	\$18.38	\$22.77
29-1062	Family and General Practitioners	\$46.45	(3)	\$50.70	\$58.39	>\$70.00
45-0000	Farming, Fishing, and Forestry Occupations	\$6.75*	\$8.97	\$6.91	\$7.97	\$9.60
45-9099	Farming, Fishing, and Forestry Workers, All Other	\$9.76	\$10.48	\$9.37	\$10.04	\$10.71
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	\$6.75*	\$7.84	\$6.75*	\$7.11	\$8.03
43-4071	File Clerks	\$7.14	\$10.44	\$7.76	\$9.96	\$12.67
13-2051	Financial Analysts	\$15.77	\$28.77	\$17.91	\$26.10	\$35.30
11-3031	Financial Managers	\$23.02	\$38.05	\$26.54	\$35.74	\$47.01

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
13-2099	Financial Specialists, All Other	\$15.75	\$30.83	\$17.74	\$25.82	\$35.11
33-2011	Fire Fighters	\$12.90	\$24.05	\$13.55	\$25.27	\$31.52
47-1011	First-Line Supervisors/Managers of Construction Trades and Extraction Workers	\$20.79	\$29.20	\$23.82	\$30.46	\$34.57
45-1011	First-Line Supervisors/Managers of Farming, Fishing, and Forestry Workers	\$14.49	\$22.29	\$16.39	\$20.44	\$28.95
33-1021	First-Line Supervisors/Managers of Fire Fighting and Prevention Workers	\$24.67	\$35.38	\$25.64	\$32.49	\$45.20
35-1012	First-Line Supervisors/Managers of Food Preparation and Serving Workers	\$9.12	\$12.65	\$9.77	\$11.93	\$14.95
53-1021	First-Line Supervisors/Managers of Helpers, Laborers, and Material Movers, Hand	\$13.19	\$21.41	\$14.85	\$20.14	\$26.42
37-1011	First-Line Supervisors/Managers of Housekeeping and Janitorial Workers	\$10.89	\$16.30	\$12.20	\$15.00	\$18.66
37-1012	First-Line Supervisors/Managers of Landscaping, Lawn Service, and Groundskeeping Workers	\$11.09	\$17.14	\$12.26	\$14.38	\$21.43
49-1011	First-Line Supervisors/Managers of Mechanics, Installers, and Repairers	\$17.74	\$24.23	\$19.08	\$23.56	\$28.48
41-1012	First-Line Supervisors/Managers of Non-Retail Sales Workers	\$16.96	\$28.25	\$19.44	\$26.88	\$35.59
43-1011	First-Line Supervisors/Managers of Office and Administrative Support Workers	\$13.11	\$19.92	\$14.77	\$18.50	\$23.66
39-1021	First-Line Supervisors/Managers of Personal Service Workers	\$10.81	\$15.95	\$11.92	\$14.18	\$17.92
51-1011	First-Line Supervisors/Managers of Production and Operating Workers	\$13.22	\$23.04	\$14.83	\$20.97	\$29.26
41-1011	First-Line Supervisors/Managers of Retail Sales Workers	\$10.96	\$18.18	\$12.33	\$16.21	\$21.73
53-1031	First-Line Supervisors/Managers of Transportation and Material-Moving Machine and Vehicle	\$14.37	\$21.69	\$16.50	\$21.77	\$26.95
33-1099	First-Line Supervisors/Managers, Protective Service Workers, All Other	\$12.80	\$19.72	\$13.84	\$19.76	\$24.86
39-9031	Fitness Trainers and Aerobics Instructors	\$10.00	\$21.30	\$11.16	\$18.27	\$27.03

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
27-1023	Floral Designers	\$7.85	\$9.53	\$7.68	\$8.32	\$9.12
51-3092	Food Batchmakers	\$8.27	\$11.44	\$8.38	\$9.35	\$13.22
35-9099	Food Preparation and Serving Related Workers, All Other	\$6.75*	\$8.67	\$6.75*	\$8.68	\$10.66
35-0000	Food Preparation and Serving-Related Occupations	\$6.78	\$9.03	\$7.14	\$8.10	\$9.82
35-2021	Food Preparation Workers	\$7.73	\$8.68	\$7.63	\$8.32	\$9.46
11-9051	Food Service Managers	\$15.06	\$20.57	\$15.96	\$18.95	\$23.45
45-4011	Forest and Conservation Workers	\$8.53	\$10.73	\$9.27	\$10.51	\$12.30
11-1021	General and Operations Managers	\$21.74	\$42.53	\$26.26	\$39.47	\$60.16
19-2042	Geoscientists, Except Hydrologists and Geographers	\$20.04	\$31.52	\$22.12	\$26.05	\$40.31
47-2121	Glaziers	\$11.90	\$16.18	\$12.67	\$14.83	\$19.99
45-2041	Graders and Sorters, Agricultural Products	\$6.75*	\$7.78	\$6.99	\$7.87	\$8.60
27-1024	Graphic Designers	\$14.77	\$21.80	\$17.77	\$21.71	\$26.21
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Me	\$7.68	\$10.34	\$8.27	\$10.07	\$12.23
39-5012	Hairdressers, Hairstylists, and Cosmetologists	\$6.75*	\$9.24	\$7.18	\$9.54	\$10.76
47-4041	Hazardous Materials Removal Workers	\$20.16	\$23.73	\$22.04	\$24.68	\$26.83
21-1091	Health Educators	\$13.53	\$19.97	\$14.52	\$20.03	\$24.62
29-0000	Healthcare Practitioners and Technical Occupations	\$15.63	\$29.27	\$18.27	\$26.38	\$34.74
31-0000	Healthcare Support Occupations	\$9.32	\$13.73	\$10.16	\$12.87	\$16.51
31-9099	Healthcare Support Workers, All Other	\$13.32	\$17.26	\$14.21	\$17.48	\$20.36

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49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	\$15.23	\$20.64	\$17.46	\$20.70	\$24.81
47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	\$10.84	\$12.59	\$11.66	\$12.71	\$13.78
47-3012	Helpers--Carpenters	\$14.46	\$16.03	\$15.37	\$16.53	\$17.69
47-3013	Helpers--Electricians	\$12.07	\$18.19	\$12.65	\$14.41	\$26.16
49-9098	Helpers--Installation, Maintenance, and Repair Workers	\$8.03	\$10.75	\$8.67	\$10.09	\$12.79
47-3014	Helpers--Painters, Paperhangers, Plasterers, and Stucco Masons	\$9.09	\$11.91	\$9.68	\$11.49	\$14.49
51-9198	Helpers--Production Workers	\$8.19	\$9.55	\$8.32	\$9.17	\$10.79
31-1011	Home Health Aides	\$7.97	\$9.00	\$8.03	\$8.88	\$10.01
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	\$6.75*	\$8.49	\$7.12	\$7.93	\$8.82
43-4081	Hotel, Motel, and Resort Desk Clerks	\$6.75*	\$8.74	\$6.75*	\$9.15	\$10.71
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	\$12.23	\$16.96	\$14.07	\$16.67	\$19.98
19-2043	Hydrologists	\$16.99	\$28.99	\$20.93	\$28.29	\$37.76
17-3026	Industrial Engineering Technicians	\$13.57	\$16.04	\$14.28	\$16.01	\$17.74
11-3051	Industrial Production Managers	\$26.69	\$39.20	\$30.05	\$35.93	\$45.52
53-7051	Industrial Truck and Tractor Operators	\$9.74	\$13.80	\$10.65	\$14.04	\$16.71
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	\$8.23	\$14.47	\$8.76	\$12.30	\$19.43
49-0000	Installation, Maintenance, and Repair Occupations	\$11.79	\$18.62	\$13.67	\$17.74	\$23.14
49-9099	Installation, Maintenance, and Repair Workers, All Other	\$11.29	\$18.56	\$13.90	\$17.46	\$23.82
25-9031	Instructional Coordinators	\$16.00	\$23.80	\$19.89	\$24.29	\$27.38

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43-9041	Insurance Claims and Policy Processing Clerks	\$12.67	\$20.12	\$13.80	\$16.72	\$28.59
41-3021	Insurance Sales Agents	\$13.07	\$27.21	\$14.91	\$22.11	\$30.08
13-2053	Insurance Underwriters	\$16.81	\$22.35	\$17.60	\$21.78	\$26.71
29-1063	Internists, General	\$53.04	(3)	\$58.16	\$66.26	>\$70.00
43-4111	Interviewers, Except Eligibility and Loan	\$9.72	\$14.14	\$10.51	\$12.43	\$16.20
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	\$7.21	\$10.25	\$7.60	\$9.25	\$11.80
51-5021	Job Printers	\$15.16	\$17.60	\$15.03	\$16.41	\$19.82
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	\$7.01	\$9.41	\$7.55	\$9.07	\$10.78
37-3011	Landscaping and Groundskeeping Workers	\$7.79	\$11.71	\$8.36	\$10.35	\$14.26
51-6011	Laundry and Dry-Cleaning Workers	\$7.47	\$9.05	\$8.08	\$9.13	\$10.15
23-1011	Lawyers	\$35.36	\$44.89	\$38.01	\$42.87	\$52.15
23-0000	Legal Occupations	\$17.22	\$34.99	\$19.37	\$36.43	\$45.15
43-6012	Legal Secretaries	\$15.78	\$20.55	\$17.10	\$21.05	\$23.76
25-4021	Librarians	\$16.92	\$24.60	\$19.11	\$24.01	\$28.92
43-4121	Library Assistants, Clerical	\$6.83	\$10.92	\$7.28	\$9.60	\$13.91
29-2061	Licensed Practical and Licensed Vocational Nurses	\$15.90	\$19.55	\$16.61	\$18.79	\$22.52
19-0000	Life, Physical, and Social Science Occupations	\$12.14	\$21.40	\$14.41	\$19.69	\$26.28
43-4131	Loan Interviewers and Clerks	\$12.28	\$15.04	\$12.95	\$14.72	\$17.29
13-2072	Loan Officers	\$13.82	\$29.48	\$17.08	\$25.42	\$33.99
11-9081	Lodging Managers	\$14.31	\$19.89	\$14.88	\$16.98	\$21.70

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
51-4041	Machinists	\$9.90	\$16.99	\$11.52	\$16.76	\$20.75
37-2012	Maids and Housekeeping Cleaners	\$6.82	\$8.56	\$7.25	\$8.22	\$9.42
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	\$8.42	\$11.13	\$8.84	\$10.36	\$12.98
49-9042	Maintenance and Repair Workers, General	\$10.72	\$16.03	\$12.17	\$15.75	\$18.94
49-9043	Maintenance Workers, Machinery	\$13.51	\$17.27	\$15.03	\$17.16	\$19.90
13-1111	Management Analysts	\$20.62	\$36.88	\$21.88	\$29.42	\$53.61
11-0000	Management Occupations	\$20.78	\$39.78	\$24.98	\$36.85	\$54.47
11-9199	Managers, All Other	\$24.20	\$37.16	\$27.97	\$36.26	\$46.34
19-3021	Market Research Analysts	\$19.62	\$31.55	\$21.90	\$27.04	\$39.01
11-2021	Marketing Managers	\$27.41	\$41.69	\$30.97	\$40.08	\$53.04
21-1013	Marriage and Family Therapists	\$17.05	\$22.36	\$18.86	\$23.87	\$26.41
31-9011	Massage Therapists	\$18.81	\$25.14	\$21.93	\$26.02	\$29.97
17-3013	Mechanical Drafters	\$20.63	\$24.21	\$23.56	\$25.42	\$27.27
17-2141	Mechanical Engineers	\$16.61	\$32.11	\$20.10	\$29.29	\$44.31
29-2012	Medical and Clinical Laboratory Technicians	\$11.55	\$16.43	\$12.13	\$13.98	\$17.59
29-2011	Medical and Clinical Laboratory Technologists	\$14.62	\$23.82	\$16.45	\$24.97	\$31.06
11-9111	Medical and Health Services Managers	\$19.16	\$31.14	\$21.61	\$31.34	\$38.98
31-9092	Medical Assistants	\$12.13	\$14.26	\$12.55	\$14.18	\$15.96
31-9093	Medical Equipment Preparers	\$8.07	\$11.47	\$8.00	\$8.84	\$15.71
29-2071	Medical Records and Health Information Technicians	\$11.64	\$16.70	\$12.56	\$14.58	\$18.14

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43-6013	Medical Secretaries	\$10.58	\$13.76	\$11.82	\$13.56	\$16.10
31-9094	Medical Transcriptionists	\$11.55	\$16.36	\$12.50	\$16.46	\$20.39
13-1121	Meeting and Convention Planners	\$17.48	\$26.67	\$19.04	\$22.89	\$38.24
21-1023	Mental Health and Substance Abuse Social Workers	\$12.34	\$19.85	\$13.65	\$22.17	\$25.61
21-1014	Mental Health Counselors	\$10.31	\$17.19	\$11.12	\$16.35	\$22.87
43-5041	Meter Readers, Utilities	\$19.53	\$23.07	\$21.33	\$23.76	\$25.97
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	\$18.12	\$22.29	\$19.31	\$21.48	\$23.93
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plasti	\$8.05	\$12.65	\$8.35	\$10.22	\$16.74
39-3021	Motion Picture Projectionists	\$7.39	\$10.84	\$7.67	\$10.05	\$13.46
53-3099	Motor Vehicle Operators, All Other	\$8.08	\$11.42	\$8.63	\$10.78	\$13.60
27-2042	Musicians and Singers	(2)	(2)	(2)	(2)	(2)
11-9121	Natural Sciences Managers	\$24.45	\$34.98	\$25.49	\$31.15	\$42.79
15-1071	Network and Computer Systems Administrators	\$18.55	\$29.22	\$21.89	\$27.30	\$36.92
15-1081	Network Systems and Data Communications Analysts	\$14.94	\$29.15	\$18.47	\$27.55	\$36.49
43-4141	New Accounts Clerks	\$10.60	\$14.50	\$11.56	\$13.86	\$16.47
27-3020	News Analysts, Reporters and Correspondents	\$10.25	\$17.05	\$12.28	\$17.76	\$20.46
39-2021	Nonfarm Animal Caretakers	\$6.96	\$8.82	\$7.01	\$7.67	\$9.63
31-1012	Nursing Aides, Orderlies, and Attendants	\$9.24	\$11.75	\$9.40	\$10.42	\$12.61
29-9010	Occupational Health and Safety Specialists and Technicians	\$16.47	\$25.95	\$19.30	\$27.11	\$32.97
29-1122	Occupational Therapists	\$24.97	\$28.91	\$26.08	\$29.45	\$32.87

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
43-0000	Office and Administrative Support Occupations	\$9.25	\$14.49	\$10.51	\$13.53	\$17.54
43-9061	Office Clerks, General	\$8.69	\$12.13	\$9.58	\$11.73	\$14.14
47-2073	Operating Engineers and Other Construction Equipment Operators	\$15.64	\$21.24	\$17.25	\$21.78	\$25.37
15-2031	Operations Research Analysts	\$19.97	\$26.12	\$21.58	\$26.20	\$31.22
29-2081	Opticians, Dispensing	\$13.18	\$17.48	\$14.71	\$16.63	\$20.82
29-1041	Optometrists	\$37.25	\$48.19	\$38.89	\$43.97	\$55.73
43-4151	Order Clerks	\$8.16	\$11.90	\$8.81	\$11.19	\$14.23
51-9111	Packaging and Filling Machine Operators and Tenders	\$7.89	\$9.33	\$8.11	\$9.03	\$10.36
53-7064	Packers and Packagers, Hand	\$6.96	\$8.51	\$7.26	\$8.06	\$8.98
47-2141	Painters, Construction and Maintenance	\$12.07	\$16.75	\$13.28	\$15.81	\$19.25
51-9122	Painters, Transportation Equipment	\$16.95	\$22.24	\$19.76	\$23.39	\$25.73
51-9123	Painting, Coating, and Decorating Workers	\$8.76	\$13.30	\$9.39	\$11.08	\$15.90
23-2011	Paralegals and Legal Assistants	\$15.88	\$18.37	\$15.43	\$16.66	\$17.86
53-6021	Parking Lot Attendants	\$6.75*	\$6.80	\$6.75*	\$6.75*	\$7.50
41-2022	Parts Salespersons	\$8.88	\$14.59	\$10.11	\$14.71	\$17.77
47-2071	Paving, Surfacing, and Tamping Equipment Operators	\$16.38	\$22.64	\$17.82	\$22.71	\$27.09
43-3051	Payroll and Timekeeping Clerks	\$11.33	\$16.64	\$13.09	\$16.20	\$19.56
29-1065	Pediatricians, General	\$58.56	(3)	\$58.46	>\$70.00	>\$70.00
39-9021	Personal and Home Care Aides	\$7.11	\$8.96	\$7.79	\$9.05	\$10.38
39-0000	Personal Care and Service Occupations	\$7.21	\$11.52	\$7.77	\$9.47	\$11.78

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
13-2052	Personal Financial Advisors	\$16.27	(3)	\$17.33	\$34.15	>\$70.00
29-1051	Pharmacists	\$35.12	\$41.51	\$39.10	\$42.95	\$47.10
31-9095	Pharmacy Aides	\$8.54	\$10.83	\$9.28	\$10.85	\$12.59
27-4021	Photographers	\$8.44	\$18.67	\$8.99	\$15.79	\$21.27
31-2022	Physical Therapist Aides	\$9.86	\$11.68	\$10.09	\$11.56	\$13.14
29-1123	Physical Therapists	\$24.78	\$29.30	\$26.05	\$29.66	\$32.83
29-1071	Physician Assistants	\$26.28	\$31.81	\$30.24	\$33.11	\$36.04
51-4193	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	\$8.98	\$11.57	\$9.57	\$10.97	\$13.41
47-2152	Plumbers, Pipefitters, and Steamfitters	\$10.53	\$20.70	\$10.96	\$19.66	\$27.78
51-5022	Prepress Technicians and Workers	\$9.72	\$14.39	\$10.16	\$12.71	\$16.78
25-2011	Preschool Teachers, Except Special Education	\$9.39	\$13.00	\$10.34	\$14.20	\$15.71
51-5023	Printing Machine Operators	\$11.04	\$16.50	\$12.15	\$16.38	\$19.36
43-3061	Procurement Clerks	\$9.86	\$14.37	\$10.46	\$13.69	\$17.23
27-2012	Producers and Directors	(2)	(2)	(2)	(2)	(2)
51-0000	Production Occupations	\$8.55	\$13.84	\$9.24	\$11.91	\$16.86
51-9199	Production Workers, All Other	\$7.88	\$9.52	\$7.82	\$8.63	\$10.23
43-5061	Production, Planning, and Expediting Clerks	\$13.22	\$19.25	\$14.91	\$19.32	\$23.02
11-9141	Property, Real Estate, and Community Association Managers	\$14.75	\$21.99	\$15.58	\$17.90	\$23.01
33-0000	Protective Service Occupations	\$10.14	\$21.54	\$12.13	\$21.31	\$28.93
25-1066	Psychology Teachers, Postsecondary	(2)	(2)	(2)	(2)	(2)

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
11-2031	Public Relations Managers	\$15.96	\$34.53	\$21.64	\$28.11	\$51.14
27-3031	Public Relations Specialists	\$15.33	\$23.43	\$16.82	\$22.60	\$29.77
13-1021	Purchasing Agents and Buyers, Farm Products	\$12.31	\$22.31	\$13.87	\$18.52	\$28.02
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	\$17.52	\$23.29	\$19.11	\$22.60	\$27.44
11-3061	Purchasing Managers	\$21.93	\$36.08	\$25.57	\$34.95	\$45.72
29-2034	Radiologic Technologists and Technicians	\$15.37	\$20.14	\$16.49	\$20.00	\$24.06
41-9021	Real Estate Brokers	\$19.33	\$27.82	\$19.06	\$20.71	\$22.48
41-9022	Real Estate Sales Agents	\$18.01	\$21.84	\$19.33	\$21.22	\$23.08
43-4171	Receptionists and Information Clerks	\$9.01	\$12.67	\$10.01	\$12.17	\$15.12
25-1193	Recreation and Fitness Studies Teachers, Postsecondary	(2)	(2)	(2)	(2)	(2)
39-9032	Recreation Workers	\$7.54	\$10.28	\$8.14	\$9.67	\$11.77
29-1125	Recreational Therapists	\$11.24	\$17.35	\$13.73	\$16.26	\$19.94
49-3092	Recreational Vehicle Service Technicians	\$11.01	\$15.15	\$13.06	\$15.94	\$17.49
29-1111	Registered Nurses	\$22.46	\$27.45	\$23.97	\$27.30	\$31.58
21-1015	Rehabilitation Counselors	\$10.47	\$16.13	\$14.17	\$16.80	\$20.07
43-4181	Reservation and Transportation Ticket Agents and Travel Clerks	\$7.40	\$9.28	\$7.78	\$8.44	\$9.11
41-2031	Retail Salespersons	\$7.26	\$10.26	\$7.62	\$8.96	\$11.14
47-2181	Roofers	\$14.44	\$18.59	\$15.41	\$17.96	\$21.38
41-0000	Sales and Related Occupations	\$7.44	\$13.89	\$8.03	\$10.32	\$16.40
41-9031	Sales Engineers	\$18.64	\$33.30	\$22.03	\$32.04	\$42.77

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
11-2022	Sales Managers	\$27.02	\$42.64	\$31.06	\$40.53	\$53.20
41-3099	Sales Representatives, Services, All Other	\$14.43	\$30.38	\$17.39	\$26.74	\$36.45
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Product	\$12.34	\$22.94	\$13.87	\$19.42	\$27.89
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	\$17.39	\$30.36	\$21.76	\$25.88	\$36.65
43-6014	Secretaries, Except Legal, Medical, and Executive	\$9.12	\$13.00	\$10.72	\$12.74	\$15.48
41-3031	Securities, Commodities, and Financial Services Sales Agents	\$19.40	\$35.55	\$20.56	\$24.93	\$55.47
33-9032	Security Guards	\$7.62	\$10.08	\$8.04	\$9.59	\$11.38
25-3021	Self-Enrichment Education Teachers	\$6.75*	\$14.86	\$6.75*	\$12.92	\$23.41
51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and	\$6.75*	\$11.52	\$6.75*	\$11.43	\$15.75
53-6031	Service Station Attendants	\$7.95	\$8.11	\$7.67	\$8.17	\$8.66
51-6031	Sewing Machine Operators	\$7.24	\$9.51	\$7.65	\$8.67	\$10.78
47-2211	Sheet Metal Workers	\$8.93	\$18.84	\$9.70	\$14.83	\$30.10
43-5071	Shipping, Receiving, and Traffic Clerks	\$8.44	\$11.30	\$8.97	\$10.51	\$13.12
11-9151	Social and Community Service Managers	\$17.30	\$21.79	\$18.46	\$20.71	\$23.44
21-1093	Social and Human Service Assistants	\$10.26	\$12.77	\$10.76	\$12.18	\$13.74
25-1067	Sociology Teachers, Postsecondary	(2)	(2)	(2)	(2)	(2)
29-1127	Speech-Language Pathologists	\$19.97	\$25.93	\$22.36	\$26.04	\$29.77
51-8021	Stationary Engineers and Boiler Operators	\$20.99	\$23.91	\$23.05	\$24.95	\$26.86
43-5081	Stock Clerks and Order Fillers	\$7.65	\$10.94	\$8.28	\$10.16	\$12.89
21-1011	Substance Abuse and Behavioral Disorder Counselors	\$10.33	\$13.73	\$11.11	\$13.15	\$16.00
29-1067	Surgeons	\$62.01	(3)	\$58.46	>\$70.00	>\$70.00

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
43-2011	Switchboard Operators, Including Answering Service	\$9.56	\$12.00	\$10.35	\$12.05	\$13.69
47-2082	Tapers	\$14.30	\$25.01	\$13.91	\$28.98	\$32.13
13-2081	Tax Examiners, Collectors, and Revenue Agents	\$25.33	\$30.44	\$27.04	\$30.74	\$34.07
13-2082	Tax Preparers	\$10.46	\$14.07	\$11.03	\$13.02	\$15.03
53-3041	Taxi Drivers and Chauffeurs	\$9.33	\$10.11	\$9.52	\$10.27	\$11.00
25-9041	Teacher Assistants	(2)	(2)	(2)	(2)	(2)
51-2092	Team Assemblers	\$7.87	\$11.48	\$8.62	\$10.64	\$13.87
27-3042	Technical Writers	\$22.10	\$32.48	\$24.14	\$29.38	\$40.50
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	\$15.23	\$20.09	\$16.87	\$20.14	\$23.70
41-9041	Telemarketers	\$8.00	\$13.19	\$8.49	\$11.53	\$16.21
43-3071	Tellers	\$9.51	\$10.69	\$9.57	\$10.41	\$11.38
47-2044	Tile and Marble Setters	\$14.14	\$20.80	\$15.65	\$18.92	\$26.05
49-3093	Tire Repairers and Changers	\$8.09	\$9.89	\$7.91	\$8.62	\$10.80
51-4111	Tool and Die Makers	\$17.83	\$23.80	\$18.71	\$21.93	\$27.48
13-1073	Training and Development Specialists	\$14.02	\$23.60	\$16.41	\$22.45	\$32.10
53-0000	Transportation and Material Moving Occupations	\$7.63	\$12.65	\$8.45	\$11.31	\$15.82
11-3071	Transportation, Storage, and Distribution Managers	\$21.82	\$30.66	\$23.42	\$27.45	\$35.10
41-3041	Travel Agents	\$7.73	\$11.05	\$8.55	\$10.80	\$13.10
37-3013	Tree Trimmers and Pruners	\$10.38	\$14.55	\$11.45	\$13.86	\$18.40
53-3032	Truck Drivers, Heavy and Tractor-Trailer	\$12.58	\$17.27	\$14.06	\$17.39	\$20.79
53-3033	Truck Drivers, Light or Delivery Services	\$9.42	\$12.64	\$10.49	\$12.68	\$14.54
39-3031	Ushers, Lobby Attendants, and Ticket Takers	\$6.82	\$7.94	\$6.94	\$7.42	\$8.70

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
29-1131	Veterinarians	\$20.47	\$42.22	\$24.82	\$39.56	\$58.46
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	\$6.75*	\$8.92	\$7.00	\$8.65	\$10.75
29-2056	Veterinary Technologists and Technicians	\$9.23	\$12.79	\$10.45	\$12.53	\$14.50
25-1194	Vocational Education Teachers, Postsecondary	\$15.26	\$30.87	\$17.09	\$24.92	\$39.67
35-3031	Waiters and Waitresses	\$6.75*	\$9.13	\$6.75*	\$7.12	\$8.62
51-8031	Water and Liquid Waste Treatment Plant and System Operators	\$16.41	\$23.20	\$20.49	\$24.83	\$27.48
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	\$8.22	\$14.43	\$9.10	\$14.90	\$19.34
51-4121	Welders, Cutters, Solderers, and Brazers	\$10.14	\$13.87	\$11.05	\$12.96	\$15.80
13-1022	Wholesale and Retail Buyers, Except Farm Products	\$11.37	\$17.32	\$12.31	\$14.66	\$20.83
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	\$6.75*	\$10.32	\$6.75*	\$7.30	\$14.90
27-3043	Writers and Authors	\$11.19	\$19.82	\$12.30	\$18.57	\$20.87

Data

- (1) The mean of the first third of the wage distribution is provided as a proxy for entry-level wage
 - (2) For some occupations, workers may not work full-time all year-round. For these occupations it is not feasible to calculate an hourly wage.
 - (3) For occupations where a substantial portion of workers earn more than \$70.00 per hour (the top step in the 2001 OES survey), the mean hourly and annual wages cannot be reliably calculated. This may occasionally apply to the entry-level wage as well.
 - (4) An estimate of employment could not be provided.
 - (5) The "Mean Relative Standard Error" is a measure of the relative precision of the wage estimate. A low number denotes relatively high validity.
- * The survey reference date was in the fourth quarter of 2001, when the California minimum wage was \$6.25 per hour. Since these wages were updated to 2002, and the minimum wage changed to \$6.75 per hour on January 1, 2002, wages below \$6.75 were set to \$6.75 per hour.

Source: Employment Development Department
Labor Market Information Division
(916) 262-2162

Projections & Planning Information

Module F:

Social & Economic Data

Table of Contents

PAGE

Module F: Social / Economic Data

Introduction.....	
Public Assistance Recipients by Program.....	F-1
Public Assistance Recipients by Program (CalWORKs) Characteristics of Recipients, 16 Years and Older.....	F-2
Occupations with the Greatest Absolute Job Growth.....	F-3
Lower Living Standard Income Levels and Poverty Guidelines.....	F-4
Planning Information for Local Workforce Investment Areas, Selected Characteristics by Age.....	F-7
Profile of General Demographic Characteristics.....	
Explanation of Terms and Concepts.....	F-9

Other Labor Market Information

Nondiscrimination Information.....	F-11
------------------------------------	------

Introduction

1.1

1.2

1.3

1.4

1.5

1.6

1.7

1.8

1.9

1.10

1.11

1.12

1.13

1.14

1.15

1.16

1.17

1.18

1.19

1.20

1.21

1.22

Introduction To Social And Economic Data Tables

The data for the Social and Economic Data Tables were developed from a variety of sources to aid local organizations in identifying target group needs and in making appropriate resource allocations for employment and training activities.

Terms expressed in these tables are those commonly used by the U.S. Department of Commerce, the Bureau of the Census and the various state agencies which supplied the data. (The specified source of the data is noted at the bottom of each table.) To aid users of this publication, these terms are defined in the *Explanation of Terms and Concepts* section at the back of this packet.

Automated Access

Electronic access to current data is available through the Employment Development Department's Internet address at:

www.calmis.ca.gov

For technical assistance or additional information about the Employment Development Department's Labor Market Information Division Internet website, please call (916) 262-2162 or FAX (916) 262-2443 to order other publications.

TABLE 1
PUBLIC ASSISTANCE RECIPIENTS BY PROGRAM
2000 - 2002
SANTA CRUZ COUNTY

Recipients by Program	July			CALIFORNIA July 2002
	2000	2001	2002	
California Work Opportunity and Responsibility To Kids (CalWORKs) (a)	5,318	4,338	3,699	1,331,704
Adults	1,535	1,219	930	297,063
Children	3,783	3,119	2,769	1,034,641
Food Stamps (b)	5,939	5,615	6,450	1,529,445
General Relief (c)	137	172	176	95,718
Refugee Cash Assistance (d)	0	2	1	1,362
Welfare to Work (e)	1,368	1,136	1,033	266,670

Source: California Department of Social Services

To access detailed reports for county comparisons, visit the California Department of Social Services Internet address at: <http://www.dss.cahwnet.gov/research>

CalWORKs: see report CA 237; Food Stamps: see report DFA 256;

General Relief: see report GR 237; Welfare to Work: see reports WTW 25 and WTW 25A.

(a) Data include foster care children.

(b) Includes those persons receiving public assistance payments and those not receiving public assistance payments.

(c) General Relief data for July 2001 were not available. Data provided are for March 2001.

(d) Refugee Cash Assistance data are for the third quarter and exclude CalWORKs recipients.

(e) With the passage of the Federal Personal Responsibility and Work Opportunity Act of 1996 and California's subsequent implementation of the California Work Opportunity and Responsibility to Kids Act (CalWORKs), the requirement for recipients of aid to participate in work related activities increased significantly. This number represents the number of CalWORKs recipients who have been enrolled or have been sent a notice to participate in Welfare to Work activities. These individuals may be required to participate or be willing to participate in these activities.

TABLE 2
PUBLIC ASSISTANCE RECIPIENTS (CalWORKs)
CHARACTERISTICS OF RECIPIENTS 16 YEARS AND OLDER
2000 - 2002
SANTA CRUZ COUNTY

Characteristics	July			CALIFORNIA July 2002
	2000	2001	2002	
Total Recipients 16+ (a) (b)	1,840	1,500	1,280	461,210
Male	350	290	250	88,310
Female	1,490	1,210	1,040	373,040
16-20.	390	320	270	97,300
21-44	1,310	1,070	910	328,710
45-54	110	90	80	28,150
55+	30	20	20	7,200
White (Not Hispanic)	870	690	560	113,140
Black (Not Hispanic)	50	40	60	101,960
Hispanic	880	740	640	206,470
Asian & Pacific Islander	20	10	10	33,350
American Indian	10	10	10	3,290
Filipino	10	10	*	3,000

(CalWORKs) California Work Opportunity And Responsibility To Kids

Source: California Department of Social Services; U.S. Department of Commerce, Bureau of the Census; Detailed data by sex, age, and race/ethnicity are extrapolations based on aggregate figures provided by the Department of Social Services.

To access the detailed report for county comparisons, visit the California Department of Social Services Internet address at: <http://www.dss.cahwnet.gov/research>
See report ABCD 350.

(a) Includes children in Two Parent, Zero Parent, All Others and Foster Care cases.

(b) Detail may not add to total due to independent rounding.

* less than five

TABLE 3
Occupations With The Greatest Absolute Job Growth (1)
1999 - 2006
SANTA CRUZ COUNTY

CA OES CODE	OCCUPATION	ANNUAL AVERAGES		NUMBER OF NEW JOBS	PERCENT CHANGE	MEAN ANNUAL WAGE	MEDIAN HOURLY WAGE (3)
		1999(2)	2006				
49011	SALESPERSONS, RETAIL	4,140	4,480	340	8.2	\$21,340	\$8.96
49023	CASHIERS	2,590	2,900	310	12.0	\$20,741	\$8.64
55347	GENERAL OFFICE CLERKS	2,520	2,810	290	11.5	\$25,233	\$11.73
31308	TEACHERS—SECONDARY SCHOOL	1,040	1,320	280	26.9	\$53,104	(4)
19005	GENERAL MANAGERS, TOP EXECUTIVES	2,610	2,880	270	10.3	(5)	(5)
22127	COMPUTER ENGINEERS	450	710	260	57.8	\$81,555	\$37.09
31305	TEACHERS—ELEMENTARY SCHOOL	1,370	1,630	260	19.0	\$46,420	(4)
25104	COMPUTER SUPPORT SPECIALISTS	430	620	190	44.2	\$53,251	\$22.88
79041	LABORERS, LANDSCAPING/GROUNDSKEE	1,030	1,220	190	18.4	\$24,351	\$10.35
63047	GUARDS AND WATCH GUARDS	740	920	180	24.3	\$20,950	\$9.59
87102	CARPENTERS	870	1,040	170	19.5	\$48,846	\$24.32
31521	TEACHER AIDES, PARAPROFESSIONAL	500	660	160	32.0	(6)	(6)
65008	WAITERS AND WAITRESSES	2,070	2,230	160	7.7	\$18,973	\$7.12
31311	TEACHERS—SPECIAL EDUCATION	410	550	140	34.1	(7)	(7)
49017	COUNTER AND RENTAL CLERKS	490	620	130	26.5	\$25,064	\$9.94
67005	JANITORS, CLEANERS—EXCEPT MAIDS	1,200	1,330	130	10.8	\$21,328	\$9.25
63014	POLICE PATROL OFFICERS	310	430	120	38.7	\$55,689	\$26.62
68038	CHILD CARE WORKERS	570	690	120	21.1	\$18,229	\$8.68
25102	SYSTEMS ANALYSTS—ELEC DATA PROC	290	400	110	37.9	\$67,181	\$30.03
27311	RECREATION WORKERS	510	610	100	19.6	\$21,378	\$9.67

Source: Employment Development Department, Labor Market Information Division,
Information Services Group and Occupational Employment Statistics Group

(1) Occupational Projections and OES Wages available online at www.calmis.ca.gov

(2) March 2001 Benchmark

(3) Median Hourly Wage is for the Santa Cruz-Watsonville Metropolitan Statistical Area (MSA).

(4) For some occupations, workers may not work full-time all year-round. For these occupations it is not feasible to calculate an hourly wage.

(5) General Managers, Top Executives - Include the following Occupations:

Chief Executives, SOC Code 11-1011, Mean Annual Wage See (5a) - Median Hourly Wage \$65.02;

Farm, Ranch and Other Agricultural Managers, SOC Code 11-9011, Mean Annual Wage \$58,695 - Median Hourly Wage \$24.90;

Sales Managers, SOC Code 11-2022, Mean Annual Wage \$88,680 - Median Hourly Wage \$40.53;

Gaming Managers, SOC Code 11-9071, Mean Annual Wage \$79,733 - Median Hourly Wage \$35.15

(5a) For occupations where a substantial portion of workers earn more than \$70.00 per hour (the top step in the 2001 OES survey), the mean hourly and annual wages cannot be reliably calculated. This may occasionally apply to the entry-level wage as well.

(6) Teacher Aides, Paraprofessional - Include the following Occupations:

Teacher Assistants, SOC Code 25-9041, Mean Annual Wage \$23,151 - Median Hourly Wage See (4)

Education, Training, and Library Workers, All Other, SOC Code 25-9199, Mean Annual Wage \$33,562 - Median Hourly Wage \$15.92

(7) Teachers Special Education - Include the following Occupations:

Special Education Teachers, Preschool, Kindergarten, Elementary School, SOC 25-2041, Mean Annual Wage \$51,950 - Median Hourly Wage See (4)

Special Education Teachers, Middle School, SOC 25-2042, Mean Annual Wage \$51,872 - Median Hourly Wage See (4)

Special Education Teachers, Secondary School, SOC 25-2043, Mean Annual Wage \$55,391 - Median Hourly Wage See (4)

TABLE 4
LOWER LIVING STANDARD INCOME LEVEL (LLSIL)
AND POVERTY GUIDELINES
2002

Table 1 — San Diego Metropolitan Statistical Area

San Diego							
	Family Size						
	One Member	Two Member	Three Member	Four Member	Five Member	Six Member	Each Additional Member Add
70% LLSIL (a)							
Annual	\$8,450	\$13,850	\$19,010	\$23,460	\$27,690	\$32,380	\$4,690
6 Months	\$4,225	\$6,925	\$9,505	\$11,730	\$13,845	\$16,190	\$2,345
100%	\$12,070	\$19,780	\$27,150	\$33,510	\$39,550	\$46,250	\$6,700
Poverty Guidelines (a)							
Annual	\$8,860	\$11,940	\$15,020	\$18,100	\$21,180	\$24,260	\$3,080
6 Months	\$4,430	\$5,970	\$7,510	\$9,050	\$10,590	\$12,130	\$1,540

Table 2 — Los Angeles/Riverside/Orange County Metropolitan Statistical Area

Anaheim	Los Angeles County				San Bernardino County		
Carson/Lomita/Torrance	Orange County				SELACO		
Foothill	Riverside County				South Bay		
Long Beach	Santa Ana				Ventura		
Los Angeles City	San Bernardino City				Verdugo		
	Family Size						
	One Member	Two Member	Three Member	Four Member	Five Member	Six Member	Each Additional Member Add
70% LLSIL (a)							
Annual	\$7,900	\$12,940	\$17,770	\$21,930	\$25,880	\$30,270	\$4,390
6 Months	\$3,950	\$6,470	\$8,885	\$10,965	\$12,940	\$15,135	\$2,195
100%	\$11,280	\$18,490	\$25,380	\$31,330	\$36,970	\$43,240	\$6,270
Poverty Guidelines (a)							
Annual	\$8,860	\$11,940	\$15,020	\$18,100	\$21,180	\$24,260	\$3,080
6 Months	\$4,430	\$5,970	\$7,510	\$9,050	\$10,590	\$12,130	\$1,540

TABLE 4
LOWER LIVING STANDARD INCOME LEVEL (LLSIL)
AND POVERTY GUIDELINES
2002

Table 3 — San Francisco/Oakland/San Jose Metropolitan Statistical Area

Alameda	Oakland						Santa Cruz
Contra Costa	Richmond						Solano
Marin	San Francisco						Sonoma
Napa	San Jose						
NOVA	San Mateo						
	Family Size						
	One Member	Two Member	Three Member	Four Member	Five Member	Six Member	Each Additional Member Add
70% LLSIL (a)							
Annual	\$8,570	\$14,040	\$19,270	\$23,790	\$28,080	\$32,840	\$4,760
6 Months	\$4,285	\$7,020	\$9,635	\$11,895	\$14,040	\$16,420	\$2,380
100%	\$12,240	\$20,060	\$27,540	\$33,990	\$40,110	\$46,910	\$6,800
Poverty Guidelines (a)							
Annual	\$8,860	\$11,940	\$15,020	\$18,100	\$21,180	\$24,260	\$3,080
6 Months	\$4,430	\$5,970	\$7,510	\$9,050	\$10,590	\$12,130	\$1,540

Table 4 — Other Metropolitan Areas

Fresno	NoRTEC						Stanislaus
Golden Sierra	North Central						Tulare
Kern/Inyo/Mono	Sacramento						Yolo
Merced	San Joaquin						
Monterey	Santa Barbara						
	Family Size						
	One Member	Two Member	Three Member	Four Member	Five Member	Six Member	Each Additional Member Add
70% LLSIL (a)							
Annual	\$7,820	\$12,810	\$17,580	\$21,700	\$25,610	\$29,950	\$4,340
6 Months	\$3,910	\$6,405	\$8,790	\$10,850	\$12,805	\$14,975	\$2,170
100%	\$11,160	\$18,290	\$25,110	\$30,990	\$36,570	\$42,770	\$6,200
Poverty Guidelines (a)							
Annual	\$8,860	\$11,940	\$15,020	\$18,100	\$21,180	\$24,260	\$3,080
6 Months	\$4,430	\$5,970	\$7,510	\$9,050	\$10,590	\$12,130	\$1,540

TABLE 4
LOWER LIVING STANDARD INCOME LEVEL (LLSIL)
AND POVERTY GUIDELINES
2002

Table 5 — Nonmetropolitan Areas

Humboldt		Mother Lode					
Imperial		San Benito					
Kings		San Luis Obispo					
Madera							
Mendocino							
	Family Size						
	One Member	Two Member	Three Member	Four Member	Five Member	Six Member	Each Additional Member Add
70% LLSIL (a)							
Annual	\$7,560	\$12,390	\$17,010	\$20,990	\$24,770	\$28,970	\$4,200
6 Months	\$3,780	\$6,195	\$8,505	\$10,495	\$12,385	\$14,485	\$2,100
100%	\$10,800	\$17,690	\$24,290	\$29,980	\$35,380	\$41,380	\$6,000
Poverty Guidelines (a)							
Annual	\$8,860	\$11,940	\$15,020	\$18,100	\$21,180	\$24,260	\$3,080
6 Months	\$4,430	\$5,970	\$7,510	\$9,050	\$10,590	\$12,130	\$1,540

Source: State of California, Workforce Investment Division, Workforce Investment Act Directive, Number: WIAD01-18, Dated June 11, 2002.

(a) Tables 1 through 5 show the 70 percent LLSIL and the poverty guidelines for western metropolitan and nonmetropolitan areas, and for three specific Metropolitan Statistical Areas in California. In addition, each LLSIL table includes the 100 percent LLSIL that establishes the Department of Labor's minimum self-sufficiency levels. Each table specifies which areas encompass which Local Workforce Investment Area (LWIA). For a family of one, in all tables, the poverty guidelines exceed the 70 percent LLSIL and, therefore, should be used to establish the low-income status. For all other family sizes, the LLSILs exceed the poverty guidelines. The last column in each table shows the amount to be added to the figure for a family of six for each additional family member.

TABLE 5
WORKFORCE INVESTMENT ACT
PLANNING INFORMATION FOR LOCAL WORKFORCE INVESTMENT AREAS
SELECTED CHARACTERISTICS BY AGE

LWIA NAME: SANTA CRUZ COUNTY
 JURISDICTIONS INCLUDED: SANTA CRUZ COUNTY

JANUARY 10, 2003

CHARACTERISTICS OF VARIOUS POTENTIAL CLIENT GROUPS

LABOR FORCE STATUS (1)	
EMPLOYED	134,482
UNEMPLOYED	10,916
UNEMPLOYMENT RATE	7.5
NOT IN LABOR FORCE (2)	58,949

2002 VETERAN INFORMATION	
TOTAL VETERANS (3)	17,134
MALE	16,116
FEMALE	1,018
VIETNAM ERA VETERANS - CENSUS 2000 (4)	7,016
DISABLED VETERANS (5)	1,279

OFFENDERS (6)	4,619
---------------	-------

% OF PEOPLE IN POVERTY: SANTA CRUZ COUNTY, 1998 (7)	12.0
---	------

1990 CENSUS (8)

FAMILIES IN POVERTY AS A % OF ALL FAMILIES	6.2
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CHARACTERISTICS OF ECONOMICALLY DISADVANTAGED PERSONS 14 TO 72 YEARS OLD (9)

	14 - 15 (10)		16 - 21		22 - 54		55 - 72		Total 16 - 72	
	NUMBER	%	NUMBER	%	NUMBER	%	NUMBER	%	NUMBER	%
TOTAL ECONOMIC DISADVANTAGED	931	100.0	2,842	100.0	11,629	100.0	1,701	100.0	16,172	100.0
BY RACE:										
WHITE NOT HISPANIC	385	41.4	1,802	63.4	7,161	61.6	1,243	73.1	10,206	63.1
BLACK NOT HISPANIC	62	6.7	6	0.2	38	0.3	0	0	44	0.3
AMERICAN INDIAN NOT HISP	0	0	17	0.6	105	0.9	36	2.1	158	1.0
ASIAN NOT HISPANIC	0	0	113	4.0	258	2.2	55	3.2	426	2.6
PACIFIC ISLAND NOT HISP	0	0	0	0	0	0	0	0	0	0
HISPANIC	484	52.0	904	31.8	4,066	35.0	367	21.6	5,337	33.0
BY SEX:										
MALE	610	65.5	1,411	49.6	5,182	44.6	667	39.2	7,260	44.9
FEMALE	321	34.5	1,431	50.4	6,447	55.4	1,034	60.8	8,912	55.1
HIGH SCHOOL EXPERIENCE:										
DROPOUTS	130	13.9	600	21.1	3,360	28.9	890	52.3	4,850	30.0
GRADUATES	0	0	162	5.7	4,148	35.7	387	22.8	4,697	29.0
STUDENTS	281	30.1	466	16.4	220	1.9	0	0	686	4.2
DISABLED	70	7.5	49	1.7	1,459	12.5	778	45.7	2,286	14.1
LIMITED ENGLISH PROF	75	8.1	498	17.5	2,189	18.8	218	12.8	2,905	18.0

TABLE 5
WORKFORCE INVESTMENT ACT
PLANNING INFORMATION FOR LOCAL WORKFORCE INVESTMENT AREAS
SELECTED CHARACTERISTICS BY AGE

Footnotes and data sources:

Source: Employment Development Department, Labor Market Information Division,
 Current Economic Statistics Group.

Note: Data provided are the most recent available.

- (1) Labor force in this category refers to civilian labor force (16 years and older). This category includes, but is not limited to, the economically disadvantaged. Labor Force data are based on preliminary data (monthly average) for the period 12/2001 through 11/2002. March 2001 Benchmark.
- (2) Not in labor force (16 years and older) are those who are not employed and not actively seeking employment. This category includes, but is not limited to, the economically disadvantaged. Not in labor force data are based on preliminary labor force data (12/01 - 11/02), Department of Finance populations estimates as of 1/02 and working age populations from 1990 census data.
- (3) Department of Veterans Affairs, Office of the Actuary, Estimated Veteran Totals, September 30, 2002, Washington, D.C.
- (4) U.S. Census Bureau, Census 2000, American FactFinder.
- (5) Department of Veterans Affairs, Statistics for Veterans Receiving Compensation and Pension Benefits, February 14, 2002, Washington, D.C.
- (6) 2001 Criminal Justice Profile, California Department of Justice.
- (7) U.S. Census Bureau. County Estimates for People of All Ages in Poverty by County: California 1998 (Estimates model 1998 income reported in the March 1999 Current Population Survey.)
- (8) Based on poverty data from the 1990 census. The 2000 census data will not be available until 2005. The economically disadvantaged population was provided by the Employment and Training Administration from a custom tabulation provided by the United States Bureau of Census.
- (9) Data for each characteristic in this section were derived by an independent estimating process using census summary data and census public use micro sample. Totals may not match other data from the same sources.
- (10) Data are not included in **Total 16 - 72** column.

Table DP-1. Profile of General Demographic Characteristics: 2000

Geographic Area: Santa Cruz County, California

[For information on confidentiality protection, nonsampling error, and definitions, see text]

Subject	Number	Percent	Subject	Number	Percent
Total population	255,602	100.0	HISPANIC OR LATINO AND RACE		
SEX AND AGE			Total population	255,602	100.0
Male.....	127,579	49.9	Hispanic or Latino (of any race).....	68,486	26.8
Female.....	128,023	50.1	Mexican.....	58,290	22.8
Under 5 years.....	15,544	6.1	Puerto Rican.....	572	0.2
5 to 9 years.....	17,077	6.7	Cuban.....	232	0.1
10 to 14 years.....	17,630	6.9	Other Hispanic or Latino.....	9,392	3.7
15 to 19 years.....	19,939	7.8	Not Hispanic or Latino.....	187,116	73.2
20 to 24 years.....	20,948	8.2	White alone.....	167,464	65.5
25 to 34 years.....	36,728	14.4	RELATIONSHIP		
35 to 44 years.....	42,087	16.5	Total population	255,602	100.0
45 to 54 years.....	40,673	15.9	In households.....	246,574	96.5
55 to 59 years.....	11,669	4.6	Householder.....	91,139	35.7
60 to 64 years.....	7,820	3.1	Spouse.....	43,790	17.1
65 to 74 years.....	12,347	4.8	Child.....	68,922	27.0
75 to 84 years.....	9,295	3.6	Own child under 18 years.....	53,633	21.0
85 years and over.....	3,845	1.5	Other relatives.....	15,729	6.2
Median age (years).....	35.0	(X)	Under 18 years.....	5,132	2.0
18 years and over.....	194,861	76.2	Nonrelatives.....	26,994	10.6
Male.....	96,358	37.7	Unmarried partner.....	7,062	2.8
Female.....	98,503	38.5	In group quarters.....	9,028	3.5
21 years and over.....	180,520	70.6	Institutionalized population.....	2,174	0.9
62 years and over.....	29,805	11.7	Noninstitutionalized population.....	6,854	2.7
65 years and over.....	25,487	10.0	HOUSEHOLD BY TYPE		
Male.....	10,255	4.0	Total households	91,139	100.0
Female.....	15,232	6.0	Family households (families).....	57,132	62.7
RACE			With own children under 18 years.....	29,111	31.9
One race.....	244,431	95.6	Married-couple family.....	43,790	48.0
White.....	191,931	75.1	With own children under 18 years.....	21,174	23.2
Black or African American.....	2,477	1.0	Female householder, no husband present.....	9,270	10.2
American Indian and Alaska Native.....	2,461	1.0	With own children under 18 years.....	5,605	6.1
Asian.....	8,789	3.4	Nonfamily households.....	34,007	37.3
Asian Indian.....	925	0.4	Householder living alone.....	22,905	25.1
Chinese.....	1,969	0.8	Householder 65 years and over.....	7,449	8.2
Filipino.....	2,272	0.9	Households with individuals under 18 years.....	31,665	34.7
Japanese.....	1,897	0.7	Households with individuals 65 years and over.....	18,173	19.9
Korean.....	662	0.3	Average household size.....	2.71	(X)
Vietnamese.....	360	0.1	Average family size.....	3.25	(X)
Other Asian ¹	704	0.3	HOUSING OCCUPANCY		
Native Hawaiian and Other Pacific Islander.....	382	0.1	Total housing units	98,873	100.0
Native Hawaiian.....	165	0.1	Occupied housing units.....	91,139	92.2
Guamanian or Chamorro.....	48	-	Vacant housing units.....	7,734	7.8
Samoan.....	70	-	For seasonal, recreational, or		
Other Pacific Islander ²	99	-	occasional use.....	5,051	5.1
Some other race.....	38,391	15.0	Homeowner vacancy rate (percent).....	0.8	(X)
Two or more races.....	11,171	4.4	Rental vacancy rate (percent).....	2.5	(X)
Race alone or in combination with one			HOUSING TENURE		
or more other races: ³			Occupied housing units	91,139	100.0
White.....	201,777	78.9	Owner-occupied housing units.....	54,681	60.0
Black or African American.....	3,771	1.5	Renter-occupied housing units.....	36,458	40.0
American Indian and Alaska Native.....	5,296	2.1	Average household size of owner-occupied units.....	2.71	(X)
Asian.....	11,916	4.7	Average household size of renter-occupied units.....	2.70	(X)
Native Hawaiian and Other Pacific Islander.....	1,054	0.4			
Some other race.....	43,921	17.2			

- Represents zero or rounds to zero. (X) Not applicable.

¹ Other Asian alone, or two or more Asian categories.² Other Pacific Islander alone, or two or more Native Hawaiian and Other Pacific Islander categories.³ In combination with one or more of the other races listed. The six numbers may add to more than the total population and the six percentages may add to more than 100 percent because individuals may report more than one race.

Source: U.S. Census Bureau, Census 2000.

Table DP-2. Profile of Selected Social Characteristics: 2000

Geographic area: Santa Cruz County, California

[Data based on a sample. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see text]

Subject	Number	Percent	Subject	Number	Percent
SCHOOL ENROLLMENT			NATIVITY AND PLACE OF BIRTH		
Population 3 years and over enrolled in school	76,840	100.0	Total population	255,602	100.0
Nursery school, preschool	3,692	4.8	Native	209,100	81.8
Kindergarten	3,480	4.5	Born in United States	206,381	80.7
Elementary school (grades 1-8)	28,501	37.1	State of residence	145,242	56.8
High school (grades 9-12)	14,162	18.4	Different state	61,139	23.9
College or graduate school	27,005	35.1	Born outside United States	2,719	1.1
EDUCATIONAL ATTAINMENT			Foreign born	46,502	18.2
Population 25 years and over	164,999	100.0	Entered 1990 to March 2000	17,284	6.8
Less than 9th grade	16,018	9.7	Naturalized citizen	14,643	5.7
9th to 12th grade, no diploma	11,666	7.1	Not a citizen	31,859	12.5
High school graduate (includes equivalency)	27,327	16.6	REGION OF BIRTH OF FOREIGN BORN		
Some college, no degree	41,465	25.1	Total (excluding born at sea)	46,502	100.0
Associate degree	12,123	7.3	Europe	6,270	13.5
Bachelor's degree	35,802	21.7	Asia	5,183	11.1
Graduate or professional degree	20,598	12.5	Africa	304	0.7
Percent high school graduate or higher	83.2	(X)	Oceania	327	0.7
Percent bachelor's degree or higher	34.2	(X)	Latin America	33,167	71.3
MARITAL STATUS			Northern America	1,251	2.7
Population 15 years and over	205,384	100.0	LANGUAGE SPOKEN AT HOME		
Never married	67,932	33.1	Population 5 years and over	240,233	100.0
Now married, except separated	99,908	48.6	English only	173,472	72.2
Separated	3,859	1.9	Language other than English	66,761	27.8
Widowed	10,489	5.1	Speak English less than "very well"	34,399	14.3
Female	8,742	4.3	Spanish	53,314	22.2
Divorced	23,196	11.3	Speak English less than "very well"	30,251	12.6
Female	13,515	6.6	Other Indo-European languages	7,914	3.3
GRANDPARENTS AS CAREGIVERS			Speak English less than "very well"	1,827	0.8
Grandparent living in household with one or more own grandchildren under 18 years	4,910	100.0	Asian and Pacific Island languages	4,850	2.0
Grandparent responsible for grandchildren	1,463	29.8	Speak English less than "very well"	2,128	0.9
VETERAN STATUS			ANCESTRY (single or multiple)		
Civilian population 18 years and over ..	195,155	100.0	Total population	255,602	100.0
Civilian veterans	19,210	9.8	Total ancestries reported	293,120	114.7
DISABILITY STATUS OF THE CIVILIAN NONINSTITUTIONALIZED POPULATION			Arab	847	0.3
Population 5 to 20 years	59,111	100.0	Czech ¹	934	0.4
With a disability	4,302	7.3	Danish	2,965	1.2
Population 21 to 64 years	154,875	100.0	Dutch	4,452	1.7
With a disability	24,161	15.6	English	30,516	11.9
Percent employed	58.4	(X)	French (except Basque) ¹	8,745	3.4
No disability	130,714	84.4	French Canadian ¹	1,555	0.6
Percent employed	78.1	(X)	German	35,240	13.8
Population 65 years and over	24,082	100.0	Greek	1,284	0.5
With a disability	9,432	39.2	Hungarian	1,209	0.5
RESIDENCE IN 1995			Irish ¹	29,668	11.6
Population 5 years and over	240,233	100.0	Italian	17,659	6.9
Same house in 1995	121,451	50.6	Lithuanian	576	0.2
Different house in the U.S. in 1995	110,466	46.0	Norwegian	4,761	1.9
Same county	66,521	27.7	Polish	5,090	2.0
Different county	43,945	18.3	Portuguese	5,770	2.3
Same state	33,105	13.8	Russian	3,949	1.5
Different state	10,840	4.5	Scotch-Irish	5,077	2.0
Elsewhere in 1995	8,316	3.5	Scottish	7,750	3.0
			Slovak	185	0.1
			Subsaharan African	487	0.2
			Swedish	5,417	2.1
			Swiss	1,660	0.6
			Ukrainian	625	0.2
			United States or American	8,006	3.1
			Welsh	3,046	1.2
			West Indian (excluding Hispanic groups)	337	0.1
			Other ancestries	105,310	41.2

-Represents zero or rounds to zero. (X) Not applicable.

¹The data represent a combination of two ancestries shown separately in Summary File 3. Czech includes Czechoslovakian. French includes Alsatian. French Canadian includes Acadian/Cajun. Irish includes Celtic.

Source: U.S. Bureau of the Census, Census 2000.

[Data based on a sample. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see text]

Source: U.S. Bureau of the Census, Census 2000.

Table DP-4. Profile of Selected Housing Characteristics: 2000

Geographic area: Santa Cruz County, California

[Data based on a sample. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see text]

Subject	Number	Percent	Subject	Number	Percent
Total housing units.....	98,873	100.0	OCCUPANTS PER ROOM		
UNITS IN STRUCTURE			Occupied housing units	91,139	100.0
1-unit, detached	62,706	63.4	1.00 or less	81,233	89.1
1-unit, attached	8,750	8.8	1.01 to 1.50	3,892	4.3
2 units	3,181	3.2	1.51 or more	6,014	6.6
3 or 4 units	5,187	5.2			
5 to 9 units	3,622	3.7	Specified owner-occupied units	43,427	100.0
10 to 19 units	2,560	2.6	VALUE		
20 or more units	5,604	5.7	Less than \$50,000	248	0.6
Mobile home	6,916	7.0	\$50,000 to \$99,999	282	0.6
Boat, RV, van, etc	347	0.4	\$100,000 to \$149,999	1,027	2.4
			\$150,000 to \$199,999	2,951	6.8
YEAR STRUCTURE BUILT			\$200,000 to \$299,999	9,201	21.2
1999 to March 2000	1,357	1.4	\$300,000 to \$499,999	18,766	43.2
1995 to 1998	3,709	3.8	\$500,000 to \$999,999	9,899	22.8
1990 to 1994	4,897	5.0	\$1,000,000 or more	1,053	2.4
1980 to 1989	15,302	15.5	Median (dollars)	377,500	(X)
1970 to 1979	24,051	24.3			
1960 to 1969	16,066	16.2	MORTGAGE STATUS AND SELECTED		
1940 to 1959	20,700	20.9	MONTHLY OWNER COSTS		
1939 or earlier	12,791	12.9	With a mortgage	33,929	78.1
ROOMS			Less than \$300	36	0.1
1 room	4,317	4.4	\$300 to \$499	333	0.8
2 rooms	7,979	8.1	\$500 to \$699	897	2.1
3 rooms	12,544	12.7	\$700 to \$999	2,153	5.0
4 rooms	19,276	19.5	\$1,000 to \$1,499	7,493	17.3
5 rooms	20,778	21.0	\$1,500 to \$1,999	9,413	21.7
6 rooms	16,517	16.7	\$2,000 or more	13,604	31.3
7 rooms	9,010	9.1	Median (dollars)	1,661	(X)
8 rooms	4,853	4.9	Not mortgaged	9,498	21.9
9 or more rooms	3,599	3.6	Median (dollars)	360	(X)
Median (rooms)	4.8	(X)	SELECTED MONTHLY OWNER COSTS		
Occupied housing units	91,139	100.0	AS A PERCENTAGE OF HOUSEHOLD		
YEAR HOUSEHOLDER MOVED INTO UNIT			INCOME IN 1999		
1999 to March 2000	17,630	19.3	Less than 15.0 percent	11,557	26.6
1995 to 1998	28,467	31.2	15.0 to 19.9 percent	5,885	13.6
1990 to 1994	14,820	16.3	20.0 to 24.9 percent	5,915	13.6
1980 to 1989	16,617	18.2	25.0 to 29.9 percent	4,972	11.4
1970 to 1979	8,868	9.7	30.0 to 34.9 percent	3,560	8.2
1969 or earlier	4,737	5.2	35.0 percent or more	11,244	25.9
			Not computed	294	0.7
VEHICLES AVAILABLE			Specified renter-occupied units	35,755	100.0
None	5,738	6.3	GROSS RENT		
1	28,646	31.4	Less than \$200	836	2.3
2	35,184	38.6	\$200 to \$299	836	2.3
3 or more	21,571	23.7	\$300 to \$499	2,873	8.0
			\$500 to \$749	6,599	18.5
HOUSE HEATING FUEL			\$750 to \$999	8,704	24.3
Utility gas	59,127	64.9	\$1,000 to \$1,499	9,419	26.3
Bottled, tank, or LP gas	8,841	9.7	\$1,500 or more	5,220	14.6
Electricity	16,528	18.1	No cash rent	1,268	3.5
Fuel oil, kerosene, etc	446	0.5	Median (dollars)	924	(X)
Coal or coke	39	-			
Wood	5,215	5.7	GROSS RENT AS A PERCENTAGE OF		
Solar energy	113	0.1	HOUSEHOLD INCOME IN 1999		
Other fuel	243	0.3	Less than 15.0 percent	4,761	13.3
No fuel used	587	0.6	15.0 to 19.9 percent	4,359	12.2
SELECTED CHARACTERISTICS			20.0 to 24.9 percent	4,302	12.0
Lacking complete plumbing facilities	924	1.0	25.0 to 29.9 percent	4,152	11.6
Lacking complete kitchen facilities	992	1.1	30.0 to 34.9 percent	3,026	8.5
No telephone service	995	1.1	35.0 percent or more	13,302	37.2
			Not computed	1,853	5.2

-Represents zero or rounds to zero. (X) Not applicable.

Source: U.S. Bureau of the Census, Census 2000.

Explanation Of Terms And Concepts

American Indian and Alaska Native: A person having origins in any of the original peoples of North and South America (including Central America), and who maintain tribal affiliation or community attachment.

Asian: A person having origins in any of the original peoples of the Far East, Southeast Asia, or the Indian subcontinent.

Black or African American: A person having origins in any of the Black racial groups of Africa.

CalWORKs: California Work Opportunity and Responsibility to Kids is a state designed public assistance program. Focus is on work and training; those who seek welfare must also seek work. Time and aid limits apply.

Food Stamp Recipient: A person receiving food stamp coupons that can be exchanged for groceries.

General Relief: A county administered assistance program which includes interim payments to the disabled, and payments to individuals who are ineligible for other assistance programs, such as CalWORKs and Refugee Cash Assistance.

Hispanic: Census 2000 adheres to the federal standards for collecting and presenting data on race and Hispanic origin as established by the Office of Management and Budget (OMB) in October 1997. The OMB defines Hispanic or Latino as "a person of Cuban, Mexican, Puerto Rican, South or Central American, or other Spanish culture or origin regardless of race."

Native Hawaiian and Other Pacific Islander: A person having origins in any of the original peoples of Hawaii, Guam, Samoa, or other Pacific Islands.

Public Assistance Recipient: A person receiving cash welfare payments and/or nonmonetary benefits under federal, state, or local welfare programs.

Refugee Cash Assistance: A cash assistance and employment services program designed for adults without children who have official status as refugee, and who have been in the United States for less than eight months. Aid is limited to eight months.

Some Other Race: Includes all other census responses not included in the "White," "Black or African American," "American Indian and Alaska Native," "Asian," and the "Native Hawaiian and Other Pacific Islander" race categories. Respondents providing write-in entries such as multiracial, mixed, interracial, or a Hispanic/Latino group (for example, Mexican, Puerto Rican, or Cuban) are included in this category.

Two or More Races: Refers to a classification of census respondents who chose to provide two or more races.

Veteran: A person who has served but is not now serving in the armed forces of the United States.

Vietnam-Era Veteran: A person who served between August 5, 1964, and May 7, 1975, but is not now serving in the armed forces of the United States.

Welfare-To-Work Program: The Welfare-To-Work Program helps family members acquire the skills needed to get a job. The county will determine if a family must participate in Welfare-To-Work activities as a requirement for CalWORKs. Families may also volunteer to participate.

White: A person having origins in any of the original peoples of Europe, the Middle East, or North Africa.

